		Ö	7 47
GenCore version 5.1.4_p5_4578		υ	8
Copyright (c) 1993 - 2003 Compugen Ltd.			9 43
		-	0 . 43
		c 1	1
OM nucleic - nucleic search, using sw model		0	2 42
		-	3 42
Kun On: May 12, 2003, 01:06:09; Search time 1066 Seconds		-	4 42.
(without alignments)		C	5 42
9784.140 Million cell updates/sec	•	-	6 42
		c 1	7 42
		-	8 42
core:			9 42
Sequence: 1 ctcaagtcactccctaaaaaggccccgtgtgatgggctag 644		C 2	0 41
		0 2	1 41
SCOring table: IDENTITY_NUC		c 0	2 41
Gapop 10.0 , Gapext 1.0		0	3 41
		C 2	4 41
Searched: 16154066 seqs, 8097743376 residues			5 41
		0	6 41
Total number of hits satisfying chosen parameters: 32308132		7	7 41
		7	8 41
Minimum DB seq length: 0		c 0	9 41
Maximum DB seq length: 2000000000		m	0 41
		0	1 41
Post-processing: Minimum Match 0%		3 3	2 41
Match		3	3 41
Listing first 45 summaries		m	4 41
	•	m	5 41
Database : EST:*	•	o o	6 41
1: em_estba:*		æ	7 41
2: em esthum:*		,	0

2: em_esthum:*
4: em_esthum:*
5: em_estho:*
6: em_estov:*
6: em_estov:*
7: em_estro:*
8: em_htc:*
10: gb_est1:*
11: gb_htc:*
11: gb_htc:*
12: gb_est2:*
14: gb_est2:*
15: em_estfun:*
16: em_estfun:*
17: gb_est5:*
18: em_estfun:*
19: em_gss_hum:*
19: em_gss_hum:*
20: em_gss_hum:*
21: em_gss_hum:*
22: em_gss_hum:*
23: em_gss_hum:*
24: em_gss_hum:*
25: em_gss_hum:*
26: em_gss_hum:*
27: em_gss_hum:*
27: em_gss_hum:*
28: em_gss_hum:*
29: em_gss_hum:*
21: em_gss_hum:*
22: em_gss_hum:*
23: em_gss_hum:*
24: em_gss_hum:*
25: em_gss_hum:*
26: em_gss_hum:*
27: em_gss_hum:*
28: em_gss_hum:*
29: em_gss_hum:*
20: em_gss_hum:*
20: em_gss_hum:*
20: em_gss_hum:*
20: em_gss_hum:*
20: em_gss_hum:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

					•	
					SUMMARIES	
		æ				
Result		Query				
No.	Score	Match	Match Length DB	DB	ID	Description
-	296.4	46.0	52	. 6	AI430337	AI430337 mf68h
71		38.8	42	14	W88186	W88186 mf68h1
m			55	13	3 13 BM540145	BM540145 hb18
4	145.4	22.6	34	12	BG609875	BG609875 3241
2				13	BM124559	BM124559 1.054
9				14	BQ554452	BQ554452 H4028

111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		4 44	33 7		925 997 925	177	CNS0091P CNS006DN BG821981 CNS0091P	ALC ALC BG8 BG1	053013 Drosophil 065132 Drosophil 321981 602726077 053013 Drosophil
12.2 6.6 460 9 A13885122 HER57122 FEETSTILE NOT 1164 12.2 6.6 558 13 BM55598 HER5721 BES7121 CGL 1164 12.2 6.6 558 13 BM55598 HER5688 DGL 186 14.4 6.4 53 13 BM55598 HER5689 DGL 186 14.4 6.4 53 13 BM55598 HER5689 DGL 186 14.4 6.4 53 13 BM55149 AM56049 AM56049 GM56496 14.4 6.4 53 14 BM5189 HER5749 AM56049 GM5649 14.4 6.4 53 14 BM5189 HER5749 HER57514 GM5649 14.5 6.4 550 12 BF51056 HER57519 HER57519 GM5649 14.5 6.4 550 12 BF51056 HER57519 HER57519 GM5649 GM5649 14.5 6.4 550 12 BM5189 HER57519 HER57519 GM5649 14.2 6.4 550 12 BM5189 HER57519 HER57519 GM5649 14.2 6.4 550 10 AW797719 AM5979 HER57519 GM5649 14.2 6.4 550 10 AW79771 HER57519 HER57519 GM5649 14.2 6.4 550 10 AW79771 HER57519 HER57519 GM5649 14.2 6.4 550 10 AW79771 HER57519 HER	c 11 c 12	44	4 % 6		568 440 839	14 14	BQ574994 BQ779177 CNS004NB	OB .	574994 UI-H-EZI- 779177 946117E05 154280 Drosophil
42.2 66 586 10 BES57121 BES57121 BES57121 DCI 144 22.6 66 533 13 BM055598 BM055568 BM055568 1055048 42.2 66 633 13 BM055598 BM055569 BM050569 10512,074 42.6 6.5 652 10 BES57022 BES57050 DCI 187 41.4 6.4 376 9 AM660405 AM660405 AM660405 COIG 480 41.4 6.4 376 9 AM660405 AM660405 AM660405 COIG 480 41.4 6.4 376 9 AM660405 AM660405 AM660405 COIG 480 41.4 6.4 405 9 AM87859 BM054605 BM055456 COIG 480 41.4 6.4 629 14 BM054645 BM05465 BM056405 LM056405 41.4 6.4 629 14 BM054645 BM056465 BM056405 LM056405 41.5 6.4 629 14 BM054645 BM056405 BM056405 LM056405 41.2 6.4 639 10 AM978791 GM056405 BM05751 GM056406 41.2 6.4 556 10 AM978791 GM056405 GM056		44			460	9 6	BE357122 AI388531	BE:	357122 DG1_146_B 38531 GH19472.5
42.2 6.6 653 13 18 M330143 BM330143 BM330143 BULL 47 M3 M330143 BULL 47 M3 M330143 BULL 47 M3 M3 M330143 BULL 47 M3		44	55		586 588	13	BE357121 BM055698	BE:	357121 DG1_146_B 355698 id85h04.x
11.6 6.5 441 9 A1064196 A1064196 A1064196 G104804 A1064196 A106405 A1064196 A106405 A1064196 A106405 A1064196 A106405 A106405 A1064196 A106405 A		44	66		633	13	BM330143 BE362682	BM:	330143 PIC1_47_F 362682 DG1_88_H0
41.4 6.4 396 9 AAR60405 AAR60405 AAR60405 AI375735 tadecco. 41.4 6.4 505 12 REF19066 BAI37535 AR60405 41.1 6.4 509 12 REF19066 BAI37535 BET19066 UTH-B1 41.2 6.4 463 13 RMB2442 BAI3753 AR831881 AR83181 AR83181 AR8318 AR8		44			441 373	თ თ	AI064196 AI867949	AIO(54.196 GH04480;5 57949 wb90b08.x
11.4 6.4 550 12 RRS19068 BF51066 BF51066 GTFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF		44	44		396 405	თთ	AA680405 AI375735	AA68	30405 zi38h02.s
11.2 6.4 463 13 BM381881 BW381881 MB881881 MB881818 MB881819 MB88181 MB88181 MB88181 MB88181 MB88181 MB8819 MB88181 MB88181 MB8819 MB88181 MB8819 MB88181 MB8819 MB88181 MB8819 MB8819 MB88181 MB8819 MB8819 MB88181 MB8819 MB8819 MB8819 MB8819 MB8819 MB8819 MB8819 MB8819 MB8819 MB8818 MB8819 MB8819 MB8818 MB8819 MB8819 MB8819 MB8819 MB8819 MB8818 MB8819 MB891 MB8819 MB8818 MB8819 MB8819 MB8818 MB8818		44	i		590	12	BF510968	BE	510968 UI-H-BI4-
411.2 6.4 488 9 AR89504 AR89510 AN89570 440018 41.2 6.4 540 10 AN995791 AN89570 AN9957918 450118 41.2 6.4 540 10 AN995791 AN89579 AN995791 450118 41.2 6.4 557 10 BE120743 BE220743 940018 41.2 6.4 557 10 BE220743 BE220743 940018 41.2 6.4 567 10 BE220743 BE220743 940018 41.2 6.4 567 10 BE212743 BE220719 BE220719 1091058 41.2 6.4 567 10 BE212743 BE220719 BE220719 1091058 41.2 6.4 584 14 BE220743 BE220719 BE220719 1091058 41.2 6.4 584 14 BE220719 BE311474 BE311479 940018 41.2 6.4 615 10 AN424676 AN424676 AN424676 AN99575 GESCO4460 41.2 6.4 615 10 AN424676 AN424676 AN424676 AN99605 GESTEAT AN99605 GESTEA		44.			463	13	BM381881	EMG.	381881 MEST541-D
41.2 6.4 540 10 AW9757918 AW9757918 AW9757918 G450118 41.2 6.4 556 10 AW9757918 AW9757918 G450118 41.2 6.4 557 10 BE122743 BE22743 9460018 41.2 6.4 567 10 BE122743 BE228743 G6003405 41.2 6.4 581 9 AI83775 BE228743 G6003405 41.2 6.4 584 10 BE511474 BE511474 BE511474 9460018 41.2 6.4 689 13 BM381419 BE511474 BE511474 9460618 41.2 6.4 689 13 BM381419 AW474676 AV874676 7070586 41.6 6.3 1063 17 CNSO7A2Y AV87604 BE31310 G406406 40.6 6.3 447 13 BM382130 BM38130 BM38130 BM27543 40.6 6.3 447 13 BM382130 BM38130 BM38823 940468 40.6 6.3 457 13 BM38823 BM38823 BM38823 940468 40.6 6.3 497 13 BM38823 BM38823 BM38823 940468 414 300337 GI:4276173 41430337 GI:4276173 41430337 GI:4276173 41430337 GI:4276173 41430337 GI:4276173 41430337 GI:4276173 41440037 GIOCAGACA CHORDALA: MARCHAIN, SCHUCPARA, MARCHAIN, HILLIGF, L., KUCADA, T., MARCHAIN, SCHUCPARA, MARCHAIN, SCHUCK,	27	44			488 527	10	AI854942 AW787570	AI8	54942 605094E01 767570 945011B07
11.2 6.4 557 10 BE129743 BE129743 960018 11.2 6.4 567 10 BE129743 BE129743 960018 11.2 6.4 567 10 BE129743 BE129743 960018 11.2 6.4 568 10 BE121974 BE121974 BE129743 960018 11.2 6.4 568 10 BE121974 BE121975 BE121975 60094019 11.2 6.4 569 13 BM381419 BE11974 BM381419 M227554 11.2 6.4 669 13 BM381419 BM381419 BM381419 M227554 11.2 6.4 669 13 BM381419 BM381419 BM381419 M227554 10.6 6.3 405 17 CNS07A2Y ALT 380053 GH18791 BM381419 M227554 10.6 6.3 405 17 CNS07A2Y BE1380823 GH18791 BM3813130 BM381		4 4	4.		540	010	AW927918	AW	327918 945011B07
41.2 6.4 567 14 B0280219 B0280219 1091038 41.2 6.4 567 14 B0280219 B0280219 1091038 41.2 6.4 568 19 B0280219 B0280219 B0280219 1091038 41.2 6.4 568 10 B02514174 B027944 B05101038 41.2 6.4 6.09 13 B0381419 B0251414 B027944 1091038 41.2 6.4 615 10 AW44476 AW44476 AW44476 AW424676 7070588 41.2 6.4 615 10 AW444476 AW444778 B021380653 GH18791 40.8 6.3 1063 17 CNS07A2Y AL380653 GH18791 40.6 6.3 468 12 BF130614 B0332130 BE130614 4990048 40.6 6.3 468 12 BF130614 B0332130 B032130 B032130 B032130 B032130 B032130 B032130 B03337 40.6 6.3 553 9 A1323984 B033813 BW053185 id66d06 40.6 6.3 553 9 A1323984 B033813 BW053185 id66d06 40.6 6.3 553 9 A1323984 B03337 B032 B03337 B033 B03337 B033 B03337 B033 B033		44	i ,		567	201	BE129743	[38]	129743 946003H07
41.2 6.4 584 14 B0279494 41.2 6.4 586 10 BE511474 41.2 6.4 615 10 AM444676 41.2 6.4 615 10 AM4381419 41.2 6.4 615 10 AM444676 40.8 6.3 1063 17 CNS07A2Y 40.8 6.3 425 13 B138013 40.6 6.3 425 13 B138013 40.6 6.3 441 13 BM382130 40.6 6.3 458 13 B1380130 40.6 6.3 468 12 BF150243 40.6 6.3 468 12 BF150243 40.6 6.3 468 12 BF150243 40.6 6.3 469 13 BM053185 40.6 6.3 469 13 BM053185 40.6 6.3 469 13 BM053185 40.6 6.3 468 12 BF150243 40.6 6.3 469 13 BM053185 41430337 41430337 4144095 4144 FOREST BATK PATKWAY, BOX 8501, St. Louis, MO 63108, USA 4144 FOREST PATK PATKWAY, BOX 8501, St. Louis, MO 63108, USA 4144 FOREST PATK PATKWAY, BOX 8501, St. Louis, MO 63108, USA 4144 FOREST PATK PATKWAY, BOX 8501, St. Louis, MO 63108 4144 FOREST PATK PATKWAY, BOX 8501, St. Louis, MO 63108 4144 FOREST PATK PATKWAY, BOX 8501, St. Louis, MO 63108 4144 FOREST PATK PATKWAY, BOX 8501, St. Louis, MO 63108 4144 FOREST PATK PATKWAY, BOX 8501, St. Louis, MO 63108 4144 FOREST PATK PATKWAY, BOX 8501, St. Louis, MO 63108 4144 FOREST PATK PATKWAY, BOX 8501, St. Louis, MO 63108 4144 FOREST PATK PATKWAY, BOX 8501, St. Louis, MO 63108 4144 FOREST PATK PATKWAY, BOX 8501, St. Louis, MO 63108 4144 FOREST PATK PATKWAY, BOX 8501, St. Louis, MO 63108 4144 FOREST PATK PATKWAY, BOX 8501, St. Louis, MO 63108 4144 FOREST PATK PATKWAY, BOX 8501, St. Louis, MO 63108 4144 FOREST PATK BATKWAY, BOX 8501, St. Louis, MO 63108 4144 FOREST PATK BATKWAY, BOX 8501, St. Louis, MO 63108 4144 FOREST PATK BATKWAY, BOX 8501, St. Louis, MO 63108 4144 FOREST PATK BATKW		4 4			567	14	BQ280219 AI833725	BOS	280219 1091036B1 33725 605094E01
41.2 6.4 609 13 BM381419 41.6 6.4 615 10 AM424676 41.6 6.4 483 9 A1388053 40.8 6.3 1063 17 CNS07A2Y 40.6 6.3 405 17 CNS07A2Y 40.6 6.3 441 13 BM382130 40.6 6.3 468 12 BR150243 40.6 6.3 602 13 BM053185 40.6 6.3 602 14 BM053185 40.6 6.3 602 15 BM053185 40.6 6.3 602 16 BM053185 40.6 6.3 602 17 CND44419 40.6 6.3 602 18 BM053185 41430337 41430337 41430337 41430337 41430337 41430337 41430337 41441950 4144 Forest Parkway, Box 8501, St. Louis, MO 63108, USA 444 Forest Parkway, Box 8501, St. Louis, MO 63108, USA 444 Forest Parkway, Box 8501, St. Louis, MO 63108, USA 444 Forest Parkway, Box 8501, St. Louis, MO 63108, USA 444 Forest Parkway, Box 8501, St. Louis, MO 63108, USA 444 Forest Parkway, Box 8501, St. Louis, MO 63108, USA 444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 and This clone is available royalty-free through LLM,; contact the This clone is available royalty-free through LLM,; contact the This clone is available royalty-free through LLM,; contact the This clone is available royalty-free through LLM,; contact the This clone is available royalty-free through LLM,; contact the This clone is available royalty-free through LLM,; contact the This clone is available royalty-free through LLM,; contact the This clone is available royalty-free through LLM,; contact the This clone is available royalty-free through LLM,; contact the This clone is available royalty-free through LLM,; contact the This clone is available royalty-free through LLM,; contact the This clone is available toyalty-free through contact man available		4.			584	14	BQ279494	BOS	79494 1091036B1
41.2 6.4 615 10 AW424676 AW424676 70058E 41.2 6.4 615 10 AW424676 AW426076 70058E 40.6 6.3 1063 17 CNS07A2Y 40.6 6.3 425 13 B1996114 B199614 B19382130 MSET4456 40.6 6.3 468 12 BF150243 B138823 494046B 40.6 6.3 468 12 BF150243 B138823 B138823 4990468 40.6 6.3 468 12 BF150243 B138823 4990468 40.6 6.3 468 12 BF150243 B138823 4990468 40.6 6.3 553 9 A1323984 A1233984 BND52201. 40.6 6.3 553 9 A1323984 BND53185 1466006 40.6 6.3 602 13 BM053185 BND8E13.5 14.5 MUS mUSCULUS CDNA A1430337 A14303337 A1430337 A1430337 A1430337 A1430337 A1430337 A1430337 A1430337 A1430337 A1430337 A1430		4.4			986	13	BM381419	BMS	114/4 946U51BU4 181419 MEST534-£
40.6 6.3 1063 17 CNS07A2Y 40.6 6.3 4063 17 CNS07A2Y 40.6 6.3 442 13 BM392134 40.6 6.3 442 13 BM392134 40.6 6.3 442 13 BM392134 40.6 6.3 468 12 BF150243 40.6 6.3 468 12 BF150243 40.6 6.3 468 12 BF150243 40.6 6.3 602 13 BM053185 40.6 6.3 602 14 BM053185 40.6 6.3 602 15 BM053185 40.6 6.3 602 16 BM053185 40.6 6.3 602 17 CNS07A2A 40.6 6.3 602 18 BM053185 40.6 6.3 602 19 BM054184 40.6 6.3 602 10 FM054184 40.6 6.3 602 10 FM04185 40.6 6.3 602 10 FM054184 40.6 6.3 602 10 FW054184 40.6 6.3 602 10 FW05		4	7.		615	20	AW424676	AWA	124676 707058E02
40.6 6.3 442 13 BH396114 BH381114 BH382113 W87444 40.6 6.3 448 12 BF150243 BH382130 BF150243 Uy83e02 40.6 6.3 468 12 BF150243 BH38823 BH38823 9490468 40.6 6.3 602 13 BM053185 BH38823 BH38823 9490468 A123.984 mb22a01. A1430337 A1430337 ALIGNMENTS BH3823 A15.5 Mus musculus CDNA A1430337 A143		4	* o :		1063	17	CNS07A2Y	ALA	136064 T3 end of
40.6 6.3 468 12 BF150243 BF150243 UN935602 40.6 6.3 468 12 BF150243 BF150243 UN935602 40.6 6.3 602 13 BM053185 B1388823 9490468 40.6 6.3 602 13 BM053185 40.6 6.3 602 12 BM054		4 4			425	e e	BI396114 BM382130	I E	396114 949044E02
40.6 6.3 497 13 B1388823 B1388823 9490468 40.6 6.3 602 13 BM053185 BM053185 id66d06 41430337 A1430337 A1430337 A1430337 A1430337 A1430337.1 GI:4276173 BEST. A1430337.1 GI:4276173 BEST. A1430337.1 GI:4276173 BEST. A1430337.1 GI:4276173 BEST. A143037.1 GI:4276173 BEST. A1440 FORDER A144 FORDE		4.4			468	15	BF150243	BE	150243 uy83e02.y
ALIGNMENTS ALIGNMENTS ALIGNMENTS ALIGNMENTS AL430337 AL44 AL44 FORTON Matcatch Marra MyWashU-NCI Mouse EST Project 1999 Washington University School of Medicine AL44 AL44 FORTON Marra MyWashU-NCI Mouse EST Project 1999 Washington University School of Medicine AL44 AL44 FORTON Fax: 314 286 1810 Fins clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information. This read is a RESEQUENCE of a previously sequenced mouse clone		444			5 5 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7	10.	AI323984	AI3	888823 949046801 23984 mb22a01.x
ALIGNMENTS AL430337 AL44 ABTER PATA M. Harberda; Muridae; Murinae; Alfinae;				•	1 > >	}	•		
A1430337 A1430337 Mf68bl0.yl Soares mouse embryo NbME13.5 14.5 Mus musculus CDNA A1430337 A1430337. A1430337. A1430337. A1430337. A1430337. GI:4276173 EST. House mouse. Mus musculus EUKaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi Manmalla; Eutheria: Rodentia; Sciurognathi; Muridae, Murinae; Mus musculus Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi Manmalla; Eutheria: Rodentia; Sciurognathi; Muridae, Murinae; Musmanlais; Eutheria: Rodentia; Sciurognathi; Muridae, Murinae; Musmanla; Eutheria: Rodentia; Sciurognathi; Muridae, Murinae; Musmanla; Eutheria: Rodentia; Sciurognathi; Muridae, Murinae; Musmanla; Eutheria: Materston, R.; Steptoe, M.; Theising, B. Allen, M.; Bowers, Y.; Pers, B.; Swaller, T.; Gibbons, M.; Pape, D.; Harvey, N.; Sciurk, R.; Ritt, E.; Kohn, S.; Shin, T.; Jackson, Y.; Cardenas, M.; McCann, R.; Materston, R. and Wilson, R. The Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA Fax: 314 286 1800 Email: mouseestfwatson, wustl.edu This clone is available royalty-free through LLN,; contact the IMAGE Consortium (info@image.llnl.gov) for further information. This read is a RESEQUENCE of a previously sequenced mouse clone		/					ALIGNMEN		
mf68bl0.yl Soares mouse embryo NbbEl3.5 14.5 Mus musculus CDNA clone IMAGE:419419 5', mRNA sequence. Al430337 Al430337 Al430337 Al430337.1 GI:4276173 EST. Al430337.1 GI:4276173 EST. Mus musculus Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi Mammalla: Eutherla: Rodentia; Sciurognathi; Muridae; Murinae; Mul (bases 1 to 534) Marra, M., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylle, T., Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y., Pers S. Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Materston, R. and Wilson, R. E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Washington University School of Medicine Washington University School of Medicine H444 Porset Park Parkway, Box 8501, St. Louis, MO 63108, USA Fax: 314 286 1800 Fax: 314 286 1800 Fax: 314 286 1810 Fax: 3	RESULT). 							
m4430337 m468bl0.y1 Soares mouse embryo NobEl3.5 14.5 Mus musculus cDRN clone IMAGE:419419 5', mRNA sequence. A1430337 A1430337 A1430337 A1430337 A1430337.1 GI:4276173 EST. Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi Mus musculus Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi Marral, M., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylle, T., Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y., Pers S., E., Swaller, T., Gibbons, M., Pape, D., Harvey, N.; Schurk, R., Ritt, E., Kohn, S., Shin, T. Jackson, Y., Cardenas, M., McCann, R., Materston, R. and Wilson, R. Waterston, R. and Wilson, R. Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA Tel: 314 286 1800 Fax: 314 286 1800 Fax: 314 286 1810 Fax: 314 286	(AI43033	7	,					;	. (
A143037.1 G1:4276173 A143037.1 G1:4276173 A143037.1 G1:4276173 BEST. HOUSE MOUSE. MUS MUSCULUS EUKATYOCA; Metazoa; Chordata; Craniata; Vertebrata; Euteleost Musmara, M., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylle, T. (Dases 1 to 524) Marra, M., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylle, T. (Dasers 1 to 524) Marra, M., Hillier, L., Steptoe, M., Theising, B., Allen, M., Bowers, Y., F. B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk, R., E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Materston, R. and Wilson, R. Washungton University School of Medicine Unpublished (1999) Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA Tel: 314 286 1800 Email: mouseest@watson.wustl.edu This clone is available royalty-free through LeN,; contact t IMAGE Consortium (info@image.llnl.gov) for further informatio This read is a RESEQUENCE of a previously sequenced mouse clo	DEFINIT	N	AI430	337 10.y1	Soares	JOE S	a) I	RNA linear 3.5 14.5 Mus	Ϋ.
ALA30337.1 GI:4276173 EST. Aus musculus Mus musculus Eutaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleost Eutaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleost Eutaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleost I (bases 1 to 524) Marra, M. Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylle, T. Underwood, K., Steptoe, M., Thelsing, B., Allen, M., Bowers, Y., F. E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, R. and Wilson, M. The WashU-NCI Mouse EST Project 1999 Contact: Marra M/WashU-NCI Mouse EST Project 1999 Contact: Marra M/WashU-NCI Mouse EST Project 1999 Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA Tel: 314 286 1810 Fax: 314 286 1810 Fax: 314 286 1810 Fax: 314 286 1810 Finis clone is available royalty-free through LLNI, ; contact t IMAGE Consortium (info@limage.llnl.gov) for futther informatio This read is a RESEQUENCE of a previously sequenced mouse clo	ACCESSI		AI430	337	1 4 T 7 4 T	ה ה		ance.	
house mouse. Mus musculus amscrulus amscrulus amscrulus but amscrulus b	VERSION KEYWORD		AI430 EST.	1337.1	GI:42	7617	m		
Mammalia: Eutheria: Rodentia: Craniata: Vertebrata; Euteleost Mammalia: Eutheria: Rodentia: Sciurognathi; Muridae; Murinae; Mammalia: Eutheria: Rodentia: Sciurognathi; Muridae; Murinae; Marra,M., Hillier.L., Kucaba,T., Martin,J., Beck,C., Wylle,T. Underwood,K., Steptoe,M., Theising,B., Allen,M., Bowers,Y., F., S. Saaller,T., Gibbons,M., Pape,D., Harvey,N.; Schurk,R., F., E., Kohn,S., Shin,T., Jackson,Y., Cardenas,M., McCann,R., Waterston,R. and Wilson,R. The WashD-NCI Mouse EST Project 1999 Unpublished (1999) Contact: Marra M/MashU-NCI Mouse EST Project 1999 Washington University School of Medicine Hard M-Mash Parkway, Box 8501, St. Louis, MO 63108, USA Tel: 314 286 1810 Fax: 314 286 1810 Fax: 314 286 1810 Fax: 314 286 1810 Final mouseest@watson.wustl.edu This clone is available royalty-free through LLNI, ; contact tIMAGE Consortium (info@lange.llnl.gov) for further informatio	SOURCE	_	house	mouse					:
l (bases 1 to 524) Marra,M. Hillier,L., Kucaba,T., Martin,J., Beck,C., Wylle,T. Underwood,K., Steptoe,M., Theising,B., Allen,M., Bowers,T., Underwood,K., Steptoe,M., Pape,D., Harvey,N., Schurk,R., E., Kohn,S., Shin,T., Jackson,Y., Cardenas,M., McCann,R., Waterston,R. and Wilson,R. The WashU-NCI Mouse EST Project 1999 Unpublished (1999) Contact: Marra M/WashU-NCI Mouse EST Project 1999 Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA Tel: 314 286 1810 Fax: 314 286 1810 Email: mouseest@watson.wustl.edu This clone is available royalty-free through LLNI, ; contact t INAGE Consortium (info@lmage.llnl.gov) for further informatio This read is a RESEQUENCE of a previously sequenced mouse clo			Eukar	yota;	Metazo Sutheri	, a a		nniata; Vertebrata; uroqnathi: Muridae	Suteleosto Murinae:
Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y., F., S. Swaller, T., Gibbons, M., Pape, D., Harvey, N.; Schurk, R., F. E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, R. and Wilson, R. The WashD-NCI Mouse EST Project 1999 Unpublished (1999) Contact: Marra M/MashU-NCI Mouse EST Project 1999 Gontact: Marra M/MashU-NCI Mouse EST Project 1999 Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA Tel: 314 286 1810 Fax: 314 286 1810 Fax: 314 286 1810 Fax: 314 286 1810 Fax: Jan 286 1810	REFEREN AUTHO	ICE ORS	1 (t Marra	ases 1	111	٠, با با	Kucaba, T	in,J., Bec	Wylie, T.
JE., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, R. and Wilson, R. The WashU-NCI Mouse EST Project 1999 Gontact: Marra MywashU-NCI Mouse EST Project 1999 Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA Tel: 314 286 1800 Fax: 314 286 1810 Email: mouseest@watson.wustl.edu This clone is available royalty-free through LLNi, contact the IMAGE Consortium (info@image.llnl.gov) for further information This read is a RESEQUENCE of a previously sequenced mouse clon			Under , B.,	wood, F Swalle	, st	ptoe	M., Thei ns, M., F	., Allen,M., Harvey,N.	
The Washu-No.1 Mouse EST Froject 1999 Contact: Marra M/WashU-NCI Mouse EST Project 1999 Contact: Marra M/WashU-NCI Mouse EST Project 1999 Washington University School of Medicine 4444 Forest Parkway, Box 8501, St. Louis, MO 63108, USA Tel: 314 286 1800 Fax: 314 286 1810 Email: mouseest@watson.wustl.edu This clone is available royalty-free through LLNL, ; contact th IMAGE Consortium (info@mage.llnl.gov) for further information This read is a RESEQUENCE of a previously sequenced mouse clon	E		Water	Kohn, S ston, F	and	n, T. Wils	SOL	ardenas,M.,	ann, R.,
Contact: Marra M/WashJ-NCI Mouse EST Project 1999 Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA Tel: 314 286 1800 Fax: 314 286 1810 Email: mouseest@watson.wustl.edu This clone is available royalty-free through LLNL, contact th IMAGE Consortium (info@image.llnl.gov) for further information This read is a RESEQUENCE of a previously sequenced mouse clon	JOURN	AL	Qudun	asno-r lished	(1999) (1999)	9 .	Ject	, ,	
4 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA 314 286 1800 134 286 1810 11: mouseestewatson.wustl.edu 12: mouseestewatson.wustl.edu 13: clone is available royalty-free through LLNL; contact th SE Consortium (info@image.llnl.gov) for further information is read is a RESEQUENCE of a previously sequenced mouse clon	COMMENT	_	Conta Washi	ct: Ma ngton	urra M/ Univer	Wash sity	Mous 1 of	ST Project 1999 dicine	
: 314 286 1810 i. mousest@watson.wustl.edu s clone is available royalty.free through LLNL; contact th s clone is available royalty.free through LLNL; contact th 3E Consortium (info@image.llnl.gov) for further information s read is a RESEQUENCE of a previously sequenced mouse clon			4444 Tel:	Forest	Park 16 1800	Park	, Box 8	, St. Louis, MO	3108, USA
s clone is available royalty-free through LLNL; contact th GE Consortium (info@image.llnl.gov) for further information s read is a RESEQUENCE of a previously sequenced mouse clon			Fax: Email	314 28 : mous	16 1810 eest@wa	atso	n.wustl.edu		
s read is a RESEQUENCE of a previously sequenced mouse	·		This	F) -	is ava	ilab	le royalty-f o@image.llnl	ree through LLNL; aov) for further	contact th
			່ຜ		SARE	SEQU	ENCE of a pr	eviously sequenced	mouse

us-10-037-591a-1.rst

```
38.8%;
80.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
              Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                        MGI:253971
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Simi
Matches 330;
                                                                                                                                                                                                                                                                                                                                                                source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BASE COUNT
ORIGIN
             ORGANISM
                                                                                                                                   TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  182
                                                     REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                FEATURES
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  염
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                   14.5dpc embryos [total RNA provided by Minoru Ko, Wayne State Univ., from 2 ]; double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and Cloned into the Not I and Eco RI sites of the modified pr773 vector. Library went through one round of normalization, and was constructed by Bento Soares and M.Fatima Bonaldo.
                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EST 12-SEP-1996
its original self in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               # 420 bp mRNA linear EST 12-SEP clone INGBblO.rl Scares mouse embryo NbME13.5 14.5 Mus musculus cDNA clone IMAGE:419419 5', mRNA sequence. ## W88186 W88186.1 GI:1542472 EST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTCCCCTGGAGATATGAGTTGGACAGAGACTTGAACCGGCTCCCCCAGGACCTGTACCA 430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        251 GGGCAACTCCGTCCCACTTTACCACAACCAGACGGTCTTCTACCGGCGGCCATGCCATGG 310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                251 CTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCTGTGCCTCCCCTAGAGCCTGCTAGGCC 310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAACCGCCACCCAGAGTCCTGTAGGGCCAGTGAAGATGGACCCCTCAACAGCAGGGCCAT 370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTCTCCTTGGAGCTATGAGTTGGACAGGGACTTGAATCGGGTCCCCCAGGACCTGTACCA 190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11 CCCGGAGGAGTGGCTGAAGTGGAGCTCTGCATCTGTGTCCCCCCCGGAGCCTCTGAGCCA 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGGCAACTCGGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGGCCATGCCATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CGAGAAGGGCACCCACAGAGGGCTACTGCCTGGAGCGCAGGCTGTACCGTGTTTCCTTAGC
                                                                                                                       /strain="C57BL/6J"
/db_xref="taxon:10090"
/clone=TiMAGE:419419"
/clone_lib="Soares mouse embryo NDME13.5 14.5"
                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 524;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 296.4; DB 9;
Pred. No. 6.2e-61;
0; Mismatches 61;
 read has been verified (found to hit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       611 TTGTGTGTGTGCGGCCCCGTGTGATGGGCTAG 644
                                                                                                            /organism~"Mus musculus"
                                       Seq primer: -40RP from Gibco
High quality sequence stop: 476
                                                                                Location/Qualifiers
                                                                                                                                                                             /sex="unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                             tch 46.0%; al Similarity 84.5%; 333; Conservative
             correct orientation)
MGI:253971
                                                                     POLYA-No.
                                                                                                                                                                                                                                                                                                                                                                                                       100
                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                       BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       431
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              491
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 2
W88186
                                                                                  FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       å
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ď,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
```

```
ë,
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 420)
Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T., Geisel,S., Rucaba,T., Lacy,M., Le,M., Martin,J., Morris,M., Tehllenberg,K., Steptoe,M., Tan,F., Underwood,K., Morre,B., Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and Waterston,R.
The WashU-HHMI Mouse EST Project
                                                                                                                                                                                                                                                                                                                                                              Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       233 CAGCAAAGGGCAGGACACCICIGAGGAGCIGCIGAGGIGGAGCACIGIGCCIGIGCCICC 292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            293 CCTAGAGCCTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCAGTGAAGATGGACC 352
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           353 CCTCAACAGCAGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTGAACCGGCT 412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               473 CICCCACAIGGACCCCCGGGGCAACICGGAGCIGCICIACCACAACCAGACIGICIICIA
                                                                                                                                                                                         Unpublished (1996)
On Sep 12, 1996 this sequence version replaced gi:1402263.
Contact: Marra M/MOUSE EST Project
WashIngton University School of MedicineP
444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1810
Fax: 314 286 1810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 249.6; DB 14; Length 420;
Pred. No. 1.1e-49;
0; Mismatches 79; Indels 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/dbome_itwAGE:419419"
/clone_lib="Soares mouse embryo NbME13.5 14.5"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /tissue_type="embryo"
/dev_stage="13.5-14.5dpc total fetus"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                               Seq primer: -28M13 rev2 from Amersham
High quality sequence stop: 408.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            80 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      M.Fatima Bonaldo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /sex="unknown"
```

m

Oy 186 ATGGTCATGG Db 277 ATGGCCATGG Oy 222 AGCTGCTGCC Db 337 AACTGCTGTC OY 282 CCTGTGCTGCTGCC OY 282 CCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGC	Db 397 CTCAAGITCC OY 342 GAAGATGGAC Db 457 GAAGACGGAC OY 402 TTGAACCGCC Db 517 TTGAACCGCC	RESULT 4 BG609875 LOCUS BG609875 DEFINITION 324181 M ACCESSION BG609875 VERSION BG609875 EPWINDEDS FOR	N H N	and Keel TITLE Design a EST disc JOURNAL Unpublis COMMENT CONTACT: USDA, AR PO BOX I Tel: 402 Fax: 402 Fax: 402 Fax: 402	FEATURES SOURCE SOURCE SOURCE SOURCE SOURCE	BASE COUNT 64	tch al Simi 161; GTTGGAC
See. 1		•					, ·
242 CTCCCACATGGACCCGCTGGGCAACTCCGTCCCACTTTACCACAACCAGACGGTCTTCTA 301 533 CCGCGGCCATGCCATGGCGAGAGGGCACCCACAGGGCTACTGGAGGGCAGGCT 592	T 3 145 ITION SION SION RDS	ORGANISM Canis familiaris Bukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis. Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis. REFERENCE 1 (bases 1 to 553) AUTHORS 0'Shaughnessy, A.L., McCombie, W.R., Baker, J.P., Balija, V., Cunnius, D., Dedhia, N.N., de la Bastide, M. Katzenberger, F., King, L., Kirchoff, Ka., Miller, B., Muller, S., Nascimento, L.O., Palmer, L., Santos, L., Shah, R.S., Sofenel, L.A., Zutavarn, T., Preston P. and	Hannon, G.J. Hannon, G.J. TITLE Expressed sequence tags from Canis familiaris (dog) (2002) JOURNAL Unpublished (2002) COMMENT Contact: W. Richard McCombie Lita Annenberg Hazarn Genome Sequencing Center Cold Spring Harbor Laboratory PO Box 100, Cold Spring Harbor, NY 11724, USA	Tel: 516 367 8884 Fax: 516 367 8884 Email: mccomble@cshl.org	/note="Vector: Lambda Zap II; The library was produced by Greg Hannon and Raymond Preston (Cold Spring Harbor Labbratory). This library is oligo(dT) prined using strategene zap CDNA synthesis kit. It was made from gestestes. Please contact Greg Hannon (hannon@cshl.org) with any library related inquiries." BASE COUNT 138 a 171 c 143 g 101 t	Query Match 35.6%; Score 229; DB 13; Length 553; Best Local Similarity 74.6%; Pred. No. 1e-44; Matches 341; Conservative 0; Mismatches 85; Indels 31; Gaps 3; 6 GTCACTCCCTABARAGACAGGAATABATTGAATABACAAACAGGCTTGCTGAAA 65 1	66 TAAAATCAGGACTCCTAACCTGCTCCAGTCAGCTGCTCCACGAGGCCTGTCAGTCA
90 00 00 00 00 00 00 00 00 00 00 00 00 0	RESUL BM540 LOCUS DEFIN ACCES VERSI KEYWO!	REF.	T COM	FEA	BAS: ORIC	O W W	0 O O O O O O O O O O O O O O O O O O O

```
pass sequencing. Bases called and alt_trimmed with phred 1004.e. Vector identified by cross_match with the -minscore 18 .nmatch 12 options.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ta: Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; la; Eutheria; Cetartiodactyla; Suina; Suidae; Sus. ses 1 to 344)
strug, S.C., Freking, B.A., Rohrer, G.A., Smith, T. P.L., Casas, E., K.T., Heaton, M.P., Grosse, W.M., Bennett, G.A., Laegreid, W.W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EST 17-APR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                and use of two pooled tissue normalized cDNA libraries for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /db_xref="taxon:09823"
/db_xref="taxon:09823"
/clone_lib="MARC_lPIG"
/rissue_type="pooled"
/lab_host="Nector: pCMV SPORT6; Site_1: NotI; Site_2: SalI; hotar="vector: pCMV SPORT6; Site_1: NotI; Site_2: SalI; and 30 embryos."
128 c 86 g 66 t
                                                                                                                                                                                                                                                      CCCCTCAACAGCAGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGAC 401 :
                        CCCAGCAAAAGGCAGGACCCCACTAAAGTGGCTGAAGCGGGACACTGTG 396
                                                                                                                                                                    CCCCTAGAGCCTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCAGT 341.
                                                                                                                                                                                          ---CTACAGCCACTGGCCC 221
                                                                                   CCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTG 281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22.6%; Score 145.4; DB 12; Length 344; 86.1%; Pred. No. 1.2e-24; ive 0; Mismatches 26; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      75 344 bp mRNA linear
MARC 1PIG Sus scrofa cDNA 5', mRNA sequence.
75.1 GI:13659854
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NRS, US Meat Animal Research Center
166, Clay Center, NE 68933-0166, USA
12 762 4366
762 4390
                                                                                                                                                                                                                                                                                                                                     SCTCCCCCAGGACCTGTACCACGCCCGTT 438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         smith@email.marc.usda.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
1. 344
/organism="Sus scrofa"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1: AGGAAACAGCTATGACCAT
XD: GTTTTCCCAGTCACGACG
100 row: G column: 12
Imer: ATTTAGGTGACACTATAG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      scovery in swine ished (2000)
  GGAACCCACAC-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         nservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      rity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               mers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
```

Gaps 59

2;

ă g В ò a

ò

```
Assembly, werd in and initial annotation of NIA 7.4K mouse CDNA clone set
Upublished (2002)
Other_ESTS: H4028C03-5
Contact: Yong Qian
Laboratory of Genetics
National Institute on Aging/National Institutes of Health
333 Cassell Drive, Suite 3000, Baltimore, MD 21224-6820, USA
Email: cdna@igsun.grc.nia.nih.gov
This clone set has been freely distributed to the community. Please
visit http://igsun.grc.nia.nih.gov/cDNA/NIA_7_4k.html for details.
Plate: H4028 row: C column: 03
Seq primer: -21M13 Forward
High quality sequence stop: 549
POLYA-Yes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           H4028C03-3 NIA Mouse 7.4K cDNA Clone Set Mus musculus cDNA clone H4028C03 3', mRNA sequence.
B0554452 GI:21455340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mus mouse.

Mus musculus

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Bukaryota; Metazoa; Chordata; Sciurognathi; Muridae; Murinae; Mus.

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 549)

1 (bases 1 to 549)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VanBuren, V., Piao, Y., Dudekula, D.B., Qian, Y., Carter, M.G., Martir, P.R., Stagg, C.A., Bassey, U., Aiba, K., Hamatani, T., Kargul, G.J., Luo, A.G. and Ko, M.S.H.
                                                                                                                                                                                                          60 TGAAAATAAAATCAGGACTCCTAACCTGCTCCAGTCAGCCTGCTCCACGAGGCCTGTCA 119
                                                                                                                                                                                                                                       86 TGAAAATAAAACCAGGACACCTCAGCTCCAGTCAGCCT-CTCTCAGAAGGCCTGTCA 144
                                                                                                                     26 CTCAAGTCACTCCCTCTAAAAGATAGTGGAAATAAATTTGAATAAACAAAAAAGGTTTGC 85
                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                34;
6.6e-13;
thes 34;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6.8e-13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 96.6; DB
Pred. No. 6.8e-
0; Mismatches
                               0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        l. .549
∕organism="Mus musculus"
      Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /dev_stage="mixed"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15.0%;
79.4%;
   79.48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
   Best Local Similarity 79.4
Matches 139; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     . 549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Simi
Matches 139;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 6
BQ554452
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                             qq
                                                                                                                                                                                                                                                                                                                                                                                                     Db
                                                                                                                                                                                                                    ŏ
                                                                                                                                                                                                                                                                                                                                            δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      primer [Invitrogen: 5.-
primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note-"Organ: heart, Vector: pSPORTI (Invitrogen); Site_1: Sall; Site_2: NotI; Mouse cDNA project by the Laboratory of Genetics, National Institute on Aging (NIA), Intramural Research Program, NIH (http://dsun.grc.nia.nih.gov/cDNA) Double-stranded cDNAs were synthesized with an Oligo(dT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EST 01-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mus musculus
Eukaryota; Marmania Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 480)
Piao,Y., Kargul,G.J., Dudekula,D.B., Qian,Y., Pantano,S., Lim,M.K.
and Ko,M.S.H.
Systematic Analyses of NIA Mouse Newborn Heart cDNA Library
Contact: Dawood B. Dudekula
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BM124559
L0541G02-3 NIA Mouse Newborn Heart CDNA Library Mus musculus CDNA clone L0541G02 3', mRNA sequence.
                                                                                                                                                           National institute on Aging/National Institutes of Health 333 Cassell Drive, Suite 4000, Baltimore, MD 21224-6820, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /clone="L0541G02"
/clone_lib="NIA Mouse Newborn Heart cDNA Library"
/tlssue_type="Newborn Heart"
/dev_stage="Newborn"
/lab_host="DH10B"
                                                                     218 ACACTGTGTCAGCCTCCGGACGGGTTCCCACATGGATCCCCTGGGTAACTCAGAGCTGCT
                                         GCACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCCCGGGGGCAACTCGGAGCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         constructed by Yulan Piao (NIA).
99 c 143 q 126 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /strain="C57BL/6J"
/db_xref="niaEST:L0541G02-3"
/db_xref="taxon:10090"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Email: cdna@lgsun.grc.nia.nih.gov
Plate: L0541 row: G column: 02
Seq primer: -21M13 Forward
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Seq primer: -21M13 Forward High quality sequence stop: 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      143 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BM124559.1 GI:17108327
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Laboratory of Genetics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           POLYA-Yes
                                                                                                                                                                                                                                                                                GGGCTAC 575
                                                                                                                                                                                                                                                                                                                                            338 TAGCTAC 344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BM124559
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE
JOURNAL
COMMENT
                                         449
                                                                                                                                                                                                                                                                                      269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 5
BM124559
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
```

```
?
                                                                                                                                                                  /note="Vector: psport; site_1: sal; site_2: Not; This clone is among a rearrayed set of 7,407 clones from more than 20 cDNA libraries" 121 cl 164 g 135 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     60 TGAAAATAAAATCAGGACTCCTAACCTGCTCCAGTCAGCCTGCTTCCACGAGGCCTGTCA 119
                                                                                                                                                                                                                                                                                                                                                                               85
                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                     26 CTCAAGTCACTCCCTCTAAAAGATAGTGGAAATAAATTTGAATAAACAAAACAGGTTTGC
                                                                                                                                                                                                                                                                                                                                          ;;
                                                                                                                                                                                                                                                                                                  Length 549;
/strain="C57BL/6"
/db_xref="niaEST:H4028C03-3"
/db_xref="taxon:10090"
/clone="H4028C03"
/clone_lib="NIA Mouse 7.4K cDNA Clone Set"
/sex="mixed"
                                                                                                                                                                                                                                                                                                                                          Indels
```

δ

15.0%; Score 96.6; DB 13; Length 480;

Query Match

ORIGIN

g

```
BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                 ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORIGIN
                                              g
                                                                                      δλ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  δλ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                We way genoscope.cns. franks (E. mail : Sequelegenoscope.cns.ir. Web : www.genoscope.cns.fr)
Determination of this BAC-end sequence was carried out as part of collaboration with the Berkeley Drosophila Genome Project (BDGP).
The BDGP is constructing a physical map of the Drosophila melanogaster genome using these BACs. For further information please see http://www.fruitfly.org The BDGP Drosophila melanogaster BAC library was prepared by Kazutoyo Oscogawa and Aaron Mammoser in Pieter de Jong's laboratory in the Department of Cancer Genetics at the Roswell Park Cancer Institute in Buffalo, NY. The library is named RPCI-98 and was constructed by partial EcoRI digestion of Drosophila DNA provided by the BDGP from the isogenic strain v2; on bw spy, the same strain used for the BDGP's and how to order individual BAC clones, the entire library or filters for hybridization from the BACPAC Resource Center can be found at http://bacpac.med.buffalo.edu/drosophila_bac.htm.
                                                                                                                                                                                             925 bp DNA linear GSS 03-JUN-1999 Drosophila melanogaster genome survey sequence TET3 end of BAC # BACK1916 of RPCI-98 library from Drosophila melanogaster (fruit ALO53013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Submitted (02-JUN-1999) Genoscope - Centre National de Sequencage BP 191 91006 EVRY cedex - FRANCE (E-mail : segref@genoscope.cns.fr
346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              227 CIGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCTGT 286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTACA 466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
1 (bases 1 to 925)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GASASHSSSSACBSSSSSCSASCWSASSSSSASSSRSGGGGGGGGGGGSSSSSSSSSSSSSS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         287 GCCICCCCTAGAGCCTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCCAGTGAAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         347 TGGACCCCTCAACAGCAGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTGAA
                                                                                      GTCAGTGCCCCACTTGTGACTGAGTGTGCCAGCCAGCATGTACCAGGTGGTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 925;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                511 others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism="Drosophila melanogaster"
/db_xref="taxon:7227"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       th 7.4%; Score 47.4; DB 17; Similarity 11.1%; Pred. No. 0.49; 37; Conservative 160; Mismatches 136;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                172 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /clone="BACR19D16"
/clone_lib="RPCI-98"
/note="end : TET3"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61 g
                                                                                                                                                                                                                                                                                                                                                 Drosophila melanogaster.
Drosophila melanogaster
                                                                                                                                                                                                                                                                                                             AL053013.1 GI:4934461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Genoscope
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local
                                                                                                                                                                                                                                                                                      ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          source
                                                                                                                                                                                CNS0091P/c
                                                                                                                                                                                                                         DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BASE COUNT
ORIGIN
                     86
                                                             120
                                                                                                   145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       407
                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best
                     g
                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
```

```
997 bp DNA linear GSS 03-JUN-1999 genome survey sequence TET3 end of BAC #
                                                                                                                                                                                                                     Drosophila melanogaster genome survey sequence TET3 end of BAC # AACRISCIT of RPCI 98 library from Drosophila melanogaster (fruit fly), genomic survey sequence.
AL065132
467 GACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACTGT 526
                                  268 GGTGGAGCACTGTGCCTGTGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCACCCCAGAGT 327
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           328 CCTGTAGGGCCAGTGAAGATGGACCCCTCAACAGCAGGGCCATCTCCCCCTGGAGATATG 387
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         507
                                                                                                                                                                                                                                                                                                                                                                 Eukaryota, Metazoā, Arthropoda, Hexapoda, Insecta, Pterygota, Neoptera, Endopterygota, Diptera, Brachycera, Muscomorpha, Ephydroidea, Drosophilidae, Drosophila.
1 (Dases 1 to 997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 and how to order individual BAC clones, the entire library, filters for hybridization from the BACPAC Resource Center ca found at http://bacpac.med.buffalo.edu/drosophila_bac.htm.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        838 MVKGKCGKGKGCGAGGKGKGKGGKGKVQKGSGCGCGGGSCMVMSCSKGBFGCMKSGCKC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SBGTTGKSSGSMABBBGCDBKSCCRWAMAYGGKWGKKGKBYNKGMKKSKVVBTGTKVBKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   388 AGTTGGACAGAGACTTGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           448 CGCACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Drosophila melanogaster"
/db_xref="taxon:7227"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             137;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     177 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             54; Conservative 157; Mismatches
                                                                                          ** SSGGGGGGGSVSASSGGRSSGGGG 592
                                                                       527 CTTCTACCGGCGCCATGCCATGGCGAGAGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /clone="BACR13C17"
/clone_lib="RPCI-98"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     120 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    : TET3"
                                                                                                                                                                                                                                                                                                                               Drosophila melanogaster.
                                                                                                                                                                                                                                                                                                                                                    Drosophila melanogaster
                                                                                                                                                                                                                                                                                           AL065132.1 GI:4944302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           7.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note="end
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                            Genoscope
                                                                                                                                                                                                    CNS006DN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local
                                                                                                                                                                                                                                                                                           VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             source
                                                                                                                                                                RESULT 8
CNS006DN/c
                                                                                                                                                                                                  LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
```

ö

```
source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BASE COUNT
ORIGIN
                                      LOCUS
                                                                                                                                                                                                                                                                                            AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   731
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              491
                                                                                                                                                                                              ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                791
RESULT 10
CNS0091P
                                                                                                                  ACCESSION
                                                                                                                                                                                                                                                                            REFERENCE
                                                                                                                                                                                                                                                                                                                                   JOURNAL
                                                                                                                                    VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                                                                                                                                                                                                                                                            COMMENT
                                                                                                                                                                           SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δλ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                     BG821981 868 bp mRNA linear EST 22-MAY-2001
6027256077F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:4865754 5',
mRNA sequence.
BG821981
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /lab_host="PHIOSE" phage resistant)"
//lab_host="Organ: colon; Vector: pOTB7; Site_1: XhoI; Site_2:
BCORI; CDNA made by Oilgo-dT priming. Directionally
cloned into EcoRI/XhoI sites using the following 5;
adaptor: GGCAGGAG(G). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in
the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-CDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)"
242 c 242 g 180 t
                                                                                                                                                                                                                                                                                                                                                                                              Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: NIH Intramural Sequencing Center
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM1731 row: i column: 19
Plate: LLCM1731 row: i column: 19
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  490 GCCTGGGCGGAAGCTGAAGCTCCCAAGGGACAGCCTCCTTGATGACCTACCGGGGCCACG 549
                                             HHHYCYCBYCYYBYVCWTYBYYKYAYGCSCCCBWCCMCMSGSGCKGGGGGSMCSVASA 599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             439 GCCTGTGCCCGCACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCCCGGGGCAACT 498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         499 CGGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGGCCATGCCATGGCGAGAAGG 558
                      TCTACCACAACCAGACTGTCTTCTACCGGCGGCCATGCCATGGCGAGAAGGGCACCCACA 567
                                                                                                                                                                                                                                                                                                                                                                                                                                 1 (bases 1 to 868)
NIH-WGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutele
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 43.8; DB 12; Length 868;
Pred. No. 3.6;
0; Mismatches 67; Indels 0
                                                                                                  AGGGCTACTGCCTGGAGGGCAGGCTGTACCGTGTTTCCTTAGCTTGTG 615
                                                                                                                      CKWRWKKGSGTGKCGBSKGBABGBKBMDTCVKKYKGKCKBKKMKSKKG 551
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /tissue_type="adenocarcinoma cell line"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism="Homo sapiens"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  610 TCATCTACAGTGGCTGCTCCACTGGGCAAAG 640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-rémail.nih.gov
Tissue Procurement: ATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /clone="IMAGE:4865754"
/clone_lib="NIH_MGC_15"
                                                                                                                                                                                                                                                                                                                  GI:14169568
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ouery Match 6.8
Best Local Similarity 55.6
Matches 84; Conservative
                                                                                                                                                                                                                                                                                                                  BG821981.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      204
                                                                                                                                                                                                                                                                                                                                                         human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                       DEFINITION
                                                                                                                                                                                                                                                                                                                                                                            ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           559
                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
AUTHORS
TITLE
JOURNAL
                    508
                                                                                                  568
                                                                                                                                    598
                                                                                                                                                                                              RESULT 9
BG821981
                                                                                                                                                                                                                                                                                                ACCESSION
                                                                                                                                                                                                                                                                                                                VERSION
ŘEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δλ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                        ò
                                                                                                                                    g
                                                           원
                                                                                                  ò
```

```
Web: www.genoscope.cns.if.

Web: www.genoscope.cns.if.

Web: www.genoscope.cns.if.

Determination of this BAC-end sequence was carried out as part of a collaboration with the Berkeley Drosophila Genome Project (BDGP).

The BDGP is constructing a physical map of the Drosophila melanogaster genome using these BACs. For further information please see http://www.fruitfly.org The BDGP Drosophila melanogaster BAC library was prepared by Kautoyo Osoegawa and Aaron Mammoser in Pieter de Jong's laboratory in the Department of Cancer Genetics at the Roswell Park Cancer Institute in Buffalo; NY. The library is named RPC-198 and was constructed by partial Ecora disestion of Drosophila DNA provided by the BDGP from the isogenic strain v2; cn bw sp, the same strain used for the BDGP's pl and EST libraries. A more detailed description of the library and how to order individual BAC clones, the entire library, or filters for hybridization from the BACPAC Resource Center can be found at http://bacpac.med.buffalo.edu/drosophila_bac.htm.
A linear GSS 03-JUN-1999 sequence TET3 end of BAC #
                                                                                                                                                                                                                                                                                                                                                                       Genoscope.
Direct Submission
Submitted (02-JUN-1999) Genoscope - Centre National de Sequencage
BP 191 91006 EVRY cedex - FRANCE (E-mail : seqref@genoscope.cns.fr
                             Drosophila melanogaster genome survey sequence TET3 end of BAC #
BACR19D16 of RPCI-98 library from Drosophila melanogaster (fruit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            790
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           252 TCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCTGTGCCTCCCCTAGAGCCTGCTAGGCCC 311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                               Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Ephydroidea; Drosophilidae; Drosophila; 1 (bases 1 to 925)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SVGTSSSSDSTSTCCSCCCYMCTCCSTYBMBCYTSTSCGGSSSSSGKGGVTKCGCGGCGS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SSTSBSCSCCCSSKSVCGTSCSSSSSSSSSSTSKSSSTSKSSSSSSSTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             312 AACCGCCACCCAGAGTCCTGTAGGGCCAGTGAAGATGGACCCCTCAACAGCAGGGCCATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            372 TCCCCCTGGAGATATGAGTTGGACAGAGACTTGAACCGGCTCCCCCCAGGACCTGTACCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGGCAACTCGGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGCCCATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ;;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 925;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               511 others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         551 CGAGAAGGGCACCCACAAGGGCTACTGCCTGGAGCGCAGGCTGTACCGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Drosophila melanogaster"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 17;
  DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative 154, Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 43.2;
Pred. No. 5;
  925 bp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /db_xref="taxon:7227"
/clone="BACR19D16"
                                                             fly), genomic survey sequence. AL053013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /clone_lib="RPCI-98"
/note="end : TET3"
                                                                                                                                                                                                Drosophila melanogaster.
Drosophila melanogaster
                                                                                                                                      AL053013.1 GI:4934461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6.7%;
14.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity ?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   851
```

26-JUL-2002

BQ574994/c DEFINITION

RESULT 11

ORGANISM

VERSION KEYWORDS SOURCE ACCESSION

AUTHORS TITLE

REFERENCE

JOURNAL COMMENT

```
/note="Organ: tassels; Vector: HybrizAP; Site_1: EcoRI; Site_2: XhoI; George Chuck dissected immature tassels between 1mm and 3mm. Sharon Stanfield prepared the cDNA library in HybrizAP. Sample insert size range was 350 bp to 3 Kb with a 1 Kb average."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CNSOO4NB 839 bp DNA linear GSS 03-JUN-1999
Drosophila melanogaster genome survey sequence TET3 end of BAC #
BACR10E16 of RPCI-98 library from Drosophila melanogaster (fruit
                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta, Spermatophyta, Magnoliophyta, Liliopsida, Poales, Poaceae, PACC clade, Panicoideae, Andropogoneae, 2ea.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /tissue_type="tassels"
/dev_stage="just after the transition from vegetative to
inflorescence development"
440 bp mRNA linear EST 26-JUL-20
946117805.x1 946 - tassel primordium prepared by Schmidt lab Zea
BQ779177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /clone_lib="946 - tassel primordium prepared by Schmidt
lab"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   398 CTGGATCGCGGCTGGGGACATCGTCCTCGTCGGCCTCCGCGACTACCAGGACGACAAGGC 339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   377 CTGGAGATATGAGTTGGACAGAGACTTGAACCGGCTCCCCCAGGACCTGTACCACGCCCG 436
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        437 TTGCCTGTGCCCGCACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCCCGGGGCAA 496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            557 GGGCACCCACAAGGGCTACTGCCTGGAGCGCAGGCTGTACCGTGTTTCCTTAGCTTGTGT 616
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 (bases 1 to 440)
Walbot,V.
Malze ESTs from various cDNA libraries sequenced at Stanford
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             338 CGACGTTATCCTCAAGTACATGAACGACGAGCCGCCTGCTCAAGGCCTACGGGGAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  497 CTCGGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGGCCATGCCATGGCGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Department of the control of the con
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 42.8; DB 14;
Pred. No. 5.6;
0; Mismatches 137;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Department of Biological Sciences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /cultivar="OH43"
/db_xref="taxon:4577"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /organism="Zea mays"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /lab_host="XLOLR"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       158 CTGCTTACGGCTACCTGTATTG 137
                                                                                                                                                                                                                           GI:21987649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6.68;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTGTGTGCGCCCCGTGTGATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Unpublished (1999)
Contact: Walbot V
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity 47.73
Matches 125; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1. .440
                                                                                                                                                                                                                           BQ779177.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    University
                                                                                                                                                                                                                                                                                                                    Zea mays.
                                                                                                                                                                                                                                                                                                                                                                 Zea mays
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      source
                                                     LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                    ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      617
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 13
CNS004NB
                                                                                                                                                                              ACCESSION
                                                                                                                                                                                                                      VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   QΩ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1..568
/organism="Homo sapiens"
/db_xref="taxon:960"
/db_xref="taxon:960"
/clone="U1-H-EZ1-bbd-e-09-0-UI"
/clone="U1-H-EZ1-bbd-e-09-0-UI"
/clone="U1-H-EZ1-bbd-e-09-0-UI"
/clone="U1-H-EZ1-bbd-e-09-0-UI"
/clone="U1-H-EZ1-bbd-e-09-0-UI"
/clone="U1-H-EZ1-bbd-e-09-0-UI"
/clone="U1-H-EZ1-bbd-e-09-0-UI"
/dev_stage="Adult"

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Emall: cgapbs-remail.nih.gov
Tissue Procurement: Dr. Steven Gitelis/ Rush Presbiterian, Dept. of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CDNA Library preparation: Dr. M. Bento Soares, University of Iowa contain Library Arrayed by: Dr. M. Bento Soares, University of Iowa DNA Sequencing by: Dr. M. Bento Soares, University of Iowa Clone Distribution: Clone distribution information can be obtained from Dr. M. Bento Soares, bento-soares@uiowa.edu
                                                                                                                                                                              EST 19-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  the synthesis of first-strand cDNA contains a library tag
sequence that is located between the Not I site and the
(dT)18 tail. The sequence tag for this library is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 568)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                          BQ574994 Innear EST 19-JUN-
UI-H-EZ1-bbd-e-09-0-UI.S1 NCI_CGAP_Ch2 Homo sapiens cDNA clone
UI_H-EZ1-bbd-e-09-0-UI 3', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                356 CAACAGCAGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTGAACCGGCTCCC 415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 43; DB 14; Length 568;
Pred. No. 5.2;
0; Mismatches 40; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           416 CCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCC 462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TAG_LIB=UI-H-E21
TAG_TISSUE-grade-2-chondrosarcoma
TAG_SEQ=ATCTAATATG"
166 c 174 g 134 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         location/Qualifiers
                                                                                                                                                                                                                                                                                                  BQ574994
BQ574994.1 GI:21478311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      62.68;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PGATCACGC1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           67; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Orthoapedics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local
```

source

FEATURES

BASE COUNT

ORIGIN

Matches

ð g ò RESULT 12 BQ779177/c

a

ö

Gaps

. 0

Length 440; Indels

```
GI:9298679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PolyTMix
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sed primer:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AI388531
AI388531.1
                                 BE357122.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             fruit fly.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches 104;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 15
AI388531/C
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM
                                                                                                ORGANISM
                                                                                                                                                                                                                                       TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            557
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VERSION
KEYWORDS
SOURCE
                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                 AUTHORS
                ACCESSION
                                   VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                q
                                                                                                                                                                                                                Direct Submission

Submitted (102-JUN-1999) Genoscope - Centre National de Sequencage:

By 191 91006 EVRY cedex - FRANCE (E-mail: seqref@genoscope.cns.fr

- Web: www.genoscope.cns.fr

- Web: www.genoscope.cns.fr

- Determination of this BAC-end sequence was carried out as part of a collaboration with the Berkeley Drosophila Genome Project (BDGP).

The BDGP is constructing a physical map of the Drosophila melanogaster genome using these BACs. For further information please see http://www.fruitfiy.org The BDGP Prosophila melanogaster BAC library was prepared by Kazutoyo Osoegawa and Aaron Mammoser in Pieter de Jong's laboratory in the Department of Cancer Genetics at the Roswell Park Cancer Institute in Buffalo, NY. The library is named RPCI-98 and was constructed by partial Ecori digestion of Drosophila DNA provided by the BDGP from the isogenic strain y2; cn bw sp, the same strain used for the BDGP's Pl and EST libraries. A more detailed description of the library and how to order individual BAC clones, the entire library or filters for hybridization from the BACPAC Resource Center can be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BE357122 460 bp mRNA linear EST 20-JUL-2000 DG1_146_B03.g1_A002 Dark Grown 1 (DG1) Sorghum bicolor cDNA, mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCAGTGAAGATGGACCCCTCAACAGCA 363.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            364 GGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTGAACCGGCTCCCCCAGGACC 423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SSAASVYGAACSSGSGASGSSSAGAARARCASVCASSASSGSCSGCSSSMCSAVSSGAAS 714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            244 AGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCTGTGCCTCCCCTAGAGCCTG 303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        535 AGSGGSGGGGSRGSGCGGAVGSASGSSSACSCSASSASSSSSASGCMSCSSSSSSSAAS 594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  184 CAATGGTCATGGGAACCCACACCTACAGCCACTGGCCCAGCTGCTGCCCCAGCAAAGGGC 243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                        Insecta; Pterygota;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ::: : :|: :: | | ::|
595 CSSSSSGSVAAVCSGSGSGVGVSAAAAVARSGARGMGGMGAAGSGRAVSAAASAAASAASAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         found at http://bacpac.med.buffalo.edu/drosophila_bac.htm.
Location/Qualifiers
                                                                                                                                      Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
1 (bases 1 to 839)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 839;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             383 others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism="Drosophila melanogaster"
/db_xref="taxon:7227"
/clone="BACR10E16"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              484 ACCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGAC 523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ch 6.6%; Score 42.4; DB 17;
1 Similarity 19.1%; Pred. No. 7.7;
65; Conservative 123; Mismatches 152;
                                                                                                                   Eukaryota; Metazoa; Arthropoda; Hexapoda;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ų
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /clone_lib="RPCI-98"
/note="end : TET3"
67 c 77 g
genomic survey sequence
                                                                             Drosophila melanogaster
Drosophila melanogaster
                                   AL054280.1 GI:4931788
                                                                                                                                                                                                        Genoscobe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local S:
Matches 65,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BE357122
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         source
                                                                             SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                304
                                                                                                                                                                                                                       TITLE
JOURNAL
                  ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 14
                                     VERSION
KEYWORDS
                                                                                                                                                                                                        AUTHORS
                                                                                                                                                                                 REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURES
                                                                                                                                                                                                                                                                                                       COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ā
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                õ
```

```
A1388531 486 bp mRNA linear EST 19-APR-2001 GH19472.5prime GH Drosophila melanogaster head pOT2 Drosophila melanogaster cDNA clone GH19472 5prime, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                Email: mmpratt@uga.edu
Sequences have been trimmed to exclude PolyA, vector and regions
below Phred quality 16. The threshold for highest quality sequence
1s 20.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1. 460

/doganism="Sorghum bicolor"
/db_xref="taxon:4558"
/clone_lib="bark Grown 1 (DG1)"
/clone=lib="bark Grown 1 (DG1)"
/clone=lorgan: 5-day-old dark-grown seedlings; Vector:
Lambda 2ap; Site_l: Xho1; Site_2: EcoRI; The library was
made from poly-A RNA in the cloning vector lambda 2AP II.
Clones to be sequenced were prepared by mass excision."
a 131 c 157 g 59 t
                                                                                                                                        and Pratt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   377 CTGGAGATATGAGTTGGACAGAGACTTGAACCGGCTCCCCCAGGACCTGTACCACGCCCG 436
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             277 TGACGTCATCCTCAAGTACATGAACGAGGGGGGGGGTCTGCTCAAGGCCTACGGGGAGCT 336
                                                                                                                                                                                                             Unpublished (2000)
Contact: Cordonnier-Pratt MM
Laboratory for Genomics and Bioinformatics
The University of Georgia, Department of Plant Biology
Plant Sciences Building, Rm. 2502, Athens, GA 30602-7271, USA
Tel: 706 583 0210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       437 INGCCIGIGCCCGCACIGCGICAGCCIACAGACAGGCICCCACAIGGACCCCCGGGGCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTCGGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGGCCATGCCATGGGGAGAA
                                                        Poaceae;
                                                                                                                                        Sudman, M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 460;
                                                                                                                                                                                                 An EST database from Sorghum: dark-grown seedlings
Sorghum bicolor
Bukaryota, Viridiplantae, Streptophyta, Embryophyt
Spermatophyta, Magnoliophyta, Liliopsida, Poales,
clade, Panicoideae, Andropogoneae, Sorghum.
                                                                                                                1 (bases 1 to 460)
Cordonnier-Pratt, M.-M., Gingle, A., Marsala, C.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    103;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6.6%; Score 42.2; DE 50.2%; Pred. No. 7.9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        High quality sequence start: 2
High quality sequence stop: 457
POLYA-No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGGCAGCGACTACATCCAGTTCGAGGA 423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GGGCACCCACAAGGGCTACTGCCTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Drosophila melanogaster
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GI:4202542
```

```
/db_xref="taxospinia" meranoguece.
/db_xref="taxospinia" melanogaster head por2"
/clone_lib="dH Drosophila melanogaster head por2"
/sex="male and female"
/dev_stage="adult"
/lab_host="DH5 - alpha"
//ds_bost="DH5 - alpha"
//ds_sized fractionated cDNAs were directly ligated into por2. Plasmid cDNA library.

A 97 c 205 g 119 t l others
                                          Harvey, D., Brokstein, P., Hong, L., Evans-Holm, M., Su, C., Tsang, G., Lewis, S. and Rubin, G.M.
Lewis, S. and Rubin, G.M.
BORD/HHHI Drosophila EST Project
Unpublished (2001)
Contact: Stapleton, M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                454 GCGTCAGCCTACAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACC 513
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         394 ACAGAGACTTGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACT 453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       392 GATTCCTCCACCGGAATGACCACCTGATCCGAATCCGGGACCGCCACNGAATCCGCCTCC 333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         514 ACAACCAGACTGTCTTCTACCGGCGGCGATGCCATGGCGAGAGGGCACCCACAAGGGCT 573
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Lawrence Berkeley National Lab
One Cyclotron Rd, Berkeley, CA 94720, USA
Fax: 510 486 6798
Email: http://www.fruitfly.org/EST, est@fruitfly.berkeley.edu
Plate: 194 row: F column: 12
High quality sequence stop: 343.
Location/Qualifiers
1.486
Cycganism="Drosophila melanogaster"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 486;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Mismatches 104; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 42.2; DB 9;
Pred. No. 8;
Ephydroidea; Drosophilidae; Drosophila.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                574 ACTGCCTGGAGCGCAGGCTGTACCGTGT 601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             272 ACCTCCTCCGACACCGCCGCCTCCAAGT 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Search completed: May 12, 2003, 01:55:16
Job time : 1074 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6.6%;
                         (bases 1 to 486)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 50.09
Matches 104; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     64
                                                                                                                                                                                                                                                                                                                                                     source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BASE COUNT
ORIGIN
                                                                                         TITLE
JOURNAL
COMMENT
                         REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
```

DNA encoding novel CDNA encoding a mu CPNA encoding a mu Murine interleukin

CDNA encoding a hu Human interleukin-Auman Interleukin-Human cDNA encodin Native sequence of Human PRO10272 cDN

Description

Human IL-17 recept

cDNA encoding a mucDNA encoding a mu

Human interleukin-Human LP-48 gene.

Mouse Interleukin-Mouse non-secreted

cDNA encoding a no Human Interleukin Human DNA encoding Human cDNA encodin

CDNA encoding a hu Human transforming Human transforming

Human interleukin cDNA encoding a hu cDNA encoding a hu

Human interleukin-CDNA encoding a hu CDNA encoding a hu Human PRO1031 nucl Human PRO1031 (UNQ

cDNA clone DNA5929 Human PRO1031 prot

Human cDNA encodin Human PRO1031 cDNA Human PRO1031 codi Human immune syste

Human cDNA

Human

/*tag=

Human Interleukin

Perfect score: Sequence: Scoring table:

Run on:

Searched:

```
Interleukin; IL-17; CTLA-8; IL-170; IL-172; IL-173; IL-174; IL-176;
IL-177; IL-171; cell proliferation; cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cDNA encoding a human interleukin (IL) 174 polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ALIGNMENTS
   SUMMARIES
                                                                          AAA58986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAA95780
                                                                                                                                                                                                                                                                   AAD2877
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
19..504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP
                                             П
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAA58986 standard; cDNA; 504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                            Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                            11177
1385
1385
1819
2361
540
543
543
687
                              Query
Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             07-NOV-2000
                                                                                        AAA58986;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAA58986
                                Result
No.
                                                                                                                                                                                                                                                                                                                             (without alignments)
2224.366 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                            ......ERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1982_DAT:*
/SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1983_DAT:*
/SIDS2/gcgdata/geneseqn-emb1/NA1983_DAT:*
/SIDS2/gcgdata/geneseqn-emb1/NA1985_DAT:*
/SIDS2/gcgdata/geneseqn-emb1/NA1985_DAT:*
/SIDS2/gcgdata/geneseqn-emb1/NA1986_DAT:*
/SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1987_DAT:*
/SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1988_DAT:*
/SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1988_DAT:*
/SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1988_DAT:*
/SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1988_DAT:*
/SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1988_DAT:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /SIDS2/gcgdata/geneseq/geneseqn-embl/NA2002.DAT:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /SIDS2/gcgdata/geneseq/geneseqn-embl/NA1997.DAT:/
/SIDS2/gcgdata/geneseq/geneseqn-embl/NA1998.DAT:/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /SIDS2/gcgdata/geneseq/geneseqn-embl/NA2001A.DAT/SIDS2/gcgdata/geneseq/geneseqn-embl/NA2001B.DAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1999_DAT:
/SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2000_DAT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /SIDS2/gcgdata/geneseq/geneseqr-emb1/Na1991.DAT
/SIDS2/gcgdata/geneseq/geneseqr-emb1/Na1992.DAT:
/SIDS2/gcgdata/geneseq/geneseqr-emb1/Na1993.DAT:
/SIDS2/gcgdata/geneseq/geneseqr-emb1/Na1994.DAT:
/SIDS2/gcgdata/geneseq/geneseqn-emb1/Na1995.DAT:
/SIDS2/gcgdata/geneseq/geneseqn-emb1/Na1996.DAT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /SIDS2/gcgdata/geneseq/geneseqn-embl/NA1980;DAT:
/SIDS2/gcgdata/geneseq/geneseqn-embl/NA1981.DAT:
                                                                                   May 12, 2003, 01:59:44; Search time 163 Seconds
GenCore version 5.1.4_p5_4578
Copyright (c) 1993 - 2003 Compugen Ltd.
                                                      OM protein - nucleic search, using frame_plus_p2n model
                                                                                                                                                                                                                                                                                                                       Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                            2185239 seqs, 1125999159 residues
                                                                                                                                                                                                                                                                                                                                                                                                                             Listing first 45 summaries
                                                                                                                                                                                                                    0.5
7.0
7.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       'YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7
                                                                                                                                          US-10-037-591A-2
910
1 MYQVVAFLAMVMGTHTYSHW.
                                                                                                                                                                                                                                   10.0 , Ygapext
6.0 , Fgapext
6.0 , Delext
                                                                                                                                                                                                                     Xgapext
                                                                                                                                                                                                                                                                                                                                                                                               Post-processing: Minimum Match 0% Maximum Match 100%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     _Geneseq_101002:*
                                                                                                                                                                                                                                                                                                                                                    Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                   BLOSUM62
Xgapop 10.0 , X
Ygapop 10.0 , Y
Fgapop 6.0 , F
Delop 6.0 , D
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Command line parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                111:
112:
114:
116:
116:
119:
119:
```

Database :

498

```
proliferation, e.g. cancerous conditions, or degenerative conditions. The IL-171 protein can be used in kits and assay methods for identifying compounds that selectively bind to IL-171.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present sequence encodes an interleukin (IL)-174 polypeptide. It is a mammalian homologue of the cytokine designated CTLA-8 (also referred to as IL-17). The specification also describes homologues IL-171, IL-172, IL-173, IL-174, IL-176, and IL-177. The DNA sequence encoding IL-171 is useful for identifying quenes, mRNA and CDNA molecules which code for related or homologous proteins. The IL-171 protein, antibodies against IL-171, and compounds which have binding affinity to IL-171 are useful in treatment of conditions associated with abnormal physiology or development, including abnormal proliferation, e.g. cancerous conditions, or degenerative conditions.
                                                                                                                                                                                                                                                                                                                                  Interleukin; IL-171; cytokine; CTLA-8; IL-17; IL-175; IL-173; IL-174; IL-176; IL-177; cell proliferation; cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New DNA sequence encoding a mammalian homolog of CTLA-8, designate interleukin-171 (IL-171), useful for recombinant production of IL-which can be used for treating conditions associated with abnormal
                               379 CAGACTGTCTTCTACCGGCGGCCATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0 other;
                                                                                                                                                                                                                                                                                                    cDNA encoding a human interleukin-174 polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "interleukin-174"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BP; 98 A; 165 C; 148 G; 93 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Kastelein RA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 19; 111pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
19..504
                                                                                                                                                                                                     BP.
                                                                                                                                                                                                     AAA59158 standard; cDNA; 504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10-JAN-2000; 2000WO-US00005.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3.01e-74
                                                                                                                                                                                                                                                                                                                                                                                                                                                   / rag= a
/product= "
19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99US-0229402
                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  physiology or development
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        19..66
/*tag=
67..501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (SCHE ) SCHERING CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bazan JF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2000-476060/41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P-PSDB; AAB07692.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO200042187-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Alignment Scores:
                                                                                                     Gly 161
                                                                                                                                   499 GGC 501
                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                    07 - NOV - 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-JUL-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gorman DM,
                                                                                                                                                                                                                                       AAA59158;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pred. No.:
                                                                                                     161
                                                                                                                                                                                                                                                                                                                                                                                                                         Key
                                                                                                                                                                                       AAA59158
                                                                                                                                                                      RESULT
                                                                                                                                                                                                                       g
                                                                    a
                                                                                                     δ
                                                                                                                                   g
                                   δ
                                                                                                                                                                                                                                                                                                                                                                                                                                       The present sequence encodes an interleukin-174 (IL-174) polypeptide. The polypeptide is an IL-17-like (CTLA-8 related) protein. It is a member of a new group of interleukins, IL-170 polypeptides. The members comprise IL-172, IL-173, IL-174, IL-177, and IL-171, and IL-170 protein can be used to treat abnormal proliferation e.g. cancer or degenerative conditions. Antibodies can be used in diagnostic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        318
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   139 GIGCCIGIGCCTCCCCTAGAGCCIGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCC 198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGTGAAGATGGACCCCTCAACAGCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGA 258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SerLeuGlnThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsn 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       80
                                                                                                                                                                                                                                                                                                                                                       New isolated polynucleotide encoding a mammalian Interleukin-17 like protein used to identify genes for homologous proteins -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      methods to detect over production of IL-170 protein in cells or body
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 259 GACTTGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACCGCGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GlnThrValPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21 ProSerCysCysProSerLysGlyGlnAspThrSerGluGluLeuLeuArgTrpSerThr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCCAGCTGCTCCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SerGluAspGlyProLeuAsnSerArgAlaIleSerProTrpArgTyrGluLeuAspArg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AspLeuAsnArgLeuProGlnAspLeuTyrHisAlaArgCysLeuCysProHisCysVal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MetTyrGlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ValProValProProLeuGluProAlaArgProAsnArgHisProGluSerCysArgAla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             504
161:
0
0
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 504 BP; 98 A; 165 C; 148 G; 93 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length:
Matches:
Conservative:
Mismatches:
Indels:
   'product= "interleukin-174"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-037-591A-2 (1-161) x AAA58986 (1-504)
                                                                                                                                                                                                                                                                      Kastelein RA;
                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 16; 111pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3.01e-74
910.00
100.00%
100.00%
                                                                                                                                                                    10-JAN-2000; 2000WO-US00006
                                                                                                                                                                                                     99US-0228822
                                   Д
                   19..66
/*tag=
67..501
/*tag=
                                                                                                                                                                                                                                       (SCHE ) SCHERING CORP
                                                                                                                                                                                                                                                                        Bazan JF,
                                                                                                                                                                                                                                                                                                      WPI; 2000-466130/40.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                       P-PSDB; AAB07598
                                                                                                     WO200042188-A2
                                                                                                                                                                                                     11-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Alignment Scores:
                                                                                                                                     20-JUL-2000
                     sig_peptide
                                                    mat_peptide
                                                                                                                                                                                                                                                                        Gorman DM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Fluids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ..
9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121
```

à

g à 요 셤

셤 ŏ

ò

셤

à

ð

9 ò us-10-037-591a-2.p2n.rng

```
Human; interleukin 174; IL-174; cytokine; Th2 response; intract imnate immune response; inflammation; gut cell growth; extramedullary haematopolesis; antibody response; granuloma formation; autoimmune condition; multiple sclerosis; systemic lupus erythematosus; rheumatoid arthritis; diabetes; psoriasis; infectious agent; inflammatory condition; Crohn's disease; ubcerative colitis; pancreatitis; allergy; Th2-mediated condition; systemic anaphylactic response; skin hypersensitivity response; dermatitis; asthma; fibrosis; ecoshophilic gastritis; immunomodulator; antiinflammatory; antiarthritis; antidiabetic; antifungal; dermatological; neuroprotective; antiallergic; agonist; antagonist; ds.
                                                                                                                                                                                                                                 258
                                                                                                                          198
                                                                                                                                                                                                                                                        AspLeuAsnArgLeuProGlnAspLeuTyrHisAlaArgCysLeuCysProHisCysVal 100
                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                80
                                                                                                       78
                                                                                                                                                                  LeuGluArgArgLeuTyrArgValSerLeuAlaCysValCysValArgProArgValMet
                                                                                  MetTyrGlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrp
                                                                                                                                                                                                                                                                                                SerLeuGlnThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsn
                                                                                                                                                                                                                                                                                                                                         GLnThrValPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCys
  161
0
0
0
0
          Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human interleukin 174 (IL-174) -encoding DNA.
   Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "Human IL-174"
                                           Gaps:
                                                               (1-504)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
19..504
                                                              US-10-037-591A-2 (1-161) x AAA59158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABA02393 standard; DNA; 504
910.00
100.00%
100.00%
100.00%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /*tag= a
/product= "
19..66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
          Similarity:
sal Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                          Gly 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                             GGC 501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  26-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABA02393;
                                Query Match:
                     Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                499
                                                                                                      19
                                                                                                                                                                                         139
                                                                                                                                                                                                                                 199
                                                                                                                                                                                                                                                                           259
                                                                                                                                                                                                                                                                                                101
                                                                                                                                                                                                                                                                                                                    319
                                                                                                                                                                                                                                                                                                                                         121
                                                                                                                                                                                                                                                                                                                                                                                   141
                                                                                                                                                                                                                                                                                                                                                                                                     439
                                                                                                                                                                                                              61
                                                                                                                                                                                                                                                       81
                                                                                                                                                                                                                                                                                                                                                              379
                                                                                                                                                                                                                                                                                                                                                                                                                           161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABA02393
            Percent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                      셤
                                                                                                                           ò
                                                                                                                                              g
                                                                                                                                                                    ò
                                                                                                                                                                                        g
                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                 윱
                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                           ð
```

```
Temporate, augments the inflammatory response from epithelial or fibroblast cells, induces gut cell growth, promotes extramedullary hammatories, augments the inflammatory response in serum and faecal material, while administration of an IL-174 antagonist directs the immune response away from a Th2 type response, and prevents inflammation or granuloma formation. IL-174 agonists may be used to treat autoimmune conditions (particularly multiple sclerosis, systemic lupus erythematosus, rheumatoid arthritis, diabetes or psoriasis), a response to an infectious agent, or inflammatory conditions such as Crohn's disease, ulcerative colitis, pancreatitis, or hepatitis. IL-174 antagonists may be used to treat inflammatory, allergic or Th2-mediated conditions (e.g., systemic anaphylactic response, skin hypersensitivity response, dermatitis, asthma, fibrosis, or eosinophilic gastritis). The
                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to methods of directing an immune response in a mammal by the administration of an agonist or antagonist of the cytokine interleukin 174 (IL-174). Administration of an IL-174 agonist directs the immune response towards a TD: response, stimulates an innate immune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ProSerCysCysProSerLysGlyGlnAspThrSerGluGluLeuLeuArgTrpSerThr 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                   Administering an interleukin 174 agonist or antagonist to a mammal regulates various immune and inflammatory responses and is useful ttreat for example autoimmune diseases, allergies or response to an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MetTyrGlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ValProValProProLeuGluProAlaArgProAsnArgHisProGluSerCysArgAla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SerGluAspGlyProLeuAsnSerArgAlaIleSerProTrpArgTyrGluLeuAspArg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      present sequence represents DNA encoding human IL-174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     504
161
0
0
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C; 148 G; 93 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels:
                                              human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-037-591A-2 (1-161) x ABA02393 (1-504)
                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 26-27; 29pp; English.
                                                                                                                                                                                                                                      DM:
                                               "Mature
                                                                                                                                                                                                                                       Rennick
                                                                                                                                                                       18-APR-2000; 2000US-198488P.
                                                                                                                                           17-APR-2001; 2001WO-US12493.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3.01e-74
910.00
100.00%
100.00%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     98 A; 165
                                /*tag= c
/product=
 q
/*tag=
67..501
/*tag=
                                                                                                                                                                                                                                       Hurst SD, Zurawski SM,
                                                                                                                                                                                                        (SCHE ) SCHERING CORP
                                                                                                                                                                                                                                                                   WPI; 2002-034343/04.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity:
                                                                                                                                                                                                                                                                                     P-PSDB; AAM52691
                                                                             WO200179288-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Alignment Scores:
                                                                                                          25-0CT-2001
                  mat_peptide
                                                                                                                                                                                                                                                                                                                                                                  infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ..
Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pred
 οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
```

```
Dp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                οy
ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cytostatic; multiple sclerosis; rheumatoid arthritis; therapy; lupus; inflammatory bowel disease; neuronal dysfunction; transplant rejection; autoimmune disorder; lung; skin; kidney; bone; eye; vascular system; infection; hepatitis; obesity; anorexia; cachexia; glomerulonephritis; cystic fibrosis; Alzheimer's disease; Parkinson's disease; emphysema; eczema; sepplis; psorlasis; wound healing; osteoporosis; paget's disease; epilepsy; atherosclerosis; heart failure; anglogenesis; endometriosis; leukaemia; retinal neuropathy; infertility; miscarriage; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         interleukin-17 like; IL-17L; immune system dysfunction; diabetes;
                                                                                                                                                                                           GlnThrValPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCys 140
                                                                                                     120
                                                                                                                                              378
                                                                                                                                                                                                                                                                                                   AspLeuAsnArgLeuProGlnAspLeuTyrHisAlaArgCysLeuCysProHisCysVal
                                                                                                                                                                                                                                                                                 141 LeuGluArgArgLeuTyrArgValSerLeuAlaCysValCysValArgProArgValMet
                                                                                                                                                                                                                                        CAGACTGTCTTCTACCGGCGGCCATGCCATGCCGAGAAGGGCACCCACAAGGGCTACTGC
                                                          259 GACTIGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     οŧ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nucleic acid molecules encoding Interleukin 17 (IL-17) - like polypeptides useful in the treatment, prevention and diagnosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ğ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Nguyen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /product= "Mature IL-17L protein"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "Human IL-17L protein"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Silbiger SM, Elliot GS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human Interleukin-17 like (IL-17L) cDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Location/Qualifiers
159..644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAD28771 standard; cDNA; 644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22-JUN-2000; 2000US-213125P.
02-FEB-2001; 2001US-266159P.
16-MAR-2001; 2001US-0810384.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21-JUN-2001; 2001WO-US19861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /*tag- b
207..641
/*tag- c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /product=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2002-155217/20
P-PSDB; AAE18120.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Yeh R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (AMGE-) AMGEN INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200208285-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                    Gly 161
                                                                                                                                                                                                                                                                                                                                                                                                          499 GGC 501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    07-MAY-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Medlock E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         31-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cancer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAD28771;
                                                                                                                                                                                                                                   379
                                                                                                                                                                                                                                                                                                                         439
                  81
                                                                                                                                                                                             121
                                                                                                                                                                                                                                                                                                                                                                  161
                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAD2877
                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CANCE OF A PART 
                                                                                                                                              ద
                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                     g
                    ð
                                                                                                       å
                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                 õ
```

```
The invention relates to nucleic acid molecules encoding Interleukin 17 (IL-17)-like polypeptides. IL-17 DNA can be used to modulate the levels of IL-17 protein in an animal. The IL-17 protein is useful for treating, of IL-17 protein is useful for treating, or executing or ameliorating a disease, such as immune system dysfunction (Theumatoid arthritis, osteoarthritis, inflammatory joint disease); autoimmune (multiple sclerosis, lupus, diabetes, inflammatory bowel disease, transplant rejection, graft vs. host disease); infections (HIV, Chepatitis, bacterial); weight disorders (obesity, anorexia, cachexia, sepsis); neuronal dysfunction (Alzheimer's, Parkinson's disease); lung caute respiratory distreas syndrome, cystic fibrosis, emphysema); skin (psoriasis, eczema, wound healing); kidney (glomerulonephitis); bone costeoporosis, paget's disease, hypercalcaemia) vascular system (epilepsy atherosociarosis, heart failure, angiogenesis); tumours, cancers (lymphoma leukaemia); reproductive (infertility, miscarriage, endomerriosis), eye (blindness, retinal neuropathy) and treatment of diseases involving on the present sequence is human interleukin-17 like (IL-17L).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MetTyrGlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GlnThrValPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ProSerCysCysProSerLysGlyGlnAspThrSerGluGluLeuLeuArgTrpSerThr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CAGACTGTCTTCTACCGGCGGCCATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    G; 123 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                    644
161
0
0
0
                                                                                                                                                                                                                                                                                                                                                                                                                   Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-037-591A-2 (1-161) x AAD28771 (1-644)
                                                                                                                                                                                                                                                                                                                                                                   C; 173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP.
                             Fig 1; 242pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABA03213 standard; cDNA; 644
                                                                                                                                                                                                                                                                                                                                                                     BP; 144 A; 204
                                                                                                                                                                                                                                                                                                                                                                                                                    4.1e-74
910.00
100.00%
100.00%
e.g. cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Percent Similarity:
Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                       Sequence 644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               641
                                                                                                                                                                                                                                                                                                                                                                                                        Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gly 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CGC
diseases
                                                                                                                                                                                                                                                                                                                                                                                                                            ..
oz
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               639
                                                                                                                                                                                                                                                                                                                                       CDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABA03213
ID ABAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 5
                                                                                                                                                                                                                                                                                                                                                                                                                                           Score
```

Ŋ

```
AspLeuAsnArgLeuProGlnAspLeuTyrHisAlaArgCysLeuCysProHisCysVal 100
 SerLeuGlnThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsn
                                                                                                                                                                                                                                                                                              121 GlnThrValPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCys
                                                                                                                                                                                                                                                                                                            ValProValProProLeuGluProAlaArgProAsnArgHisProGluSerCysArgAla
                                                                                                                                         SerGluAspGlyProLeuAsnSerArgAlaIleSerProTrpArgTyrGluLeuAspArg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAS09511 standard; cDNA; 1320 BP
                                                                                                                                                                                                                                                                                                                                                                                              161 Gly 161
                                                                                                                                                                                                                                                                                                                                                                                                                       639 GGC 641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAS09511;
              159
                                                                                      41
                                                                                                                279
                                                                                                                                                                 339
                                                                                                                                                                                                                                                                     459
                                                                                                                                         61
                                                                                                                                                                                          81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo
                                                                                                                                                                                                                                            101
                                       21
                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 6
                                                                                                            qq
                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                     g
                                       à
                                                             d
                                                                                                                                         φ
                                                                                                                                                                d
                                                                                                                                                                                          ŏ
                                                                                                                                                                                                                                            δ
                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Y X X Y
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to novel human nucleic acids encoding interleukin 17 (IL-17) receptor like proteins (see ABA03200-ABA03202, AAM47456, AAM47459 and AAM47459). The IL-17 receptor-like proteins and coding sequences are useful for treating a pathological condition related to immune system dysfunction (e.g. psoriatic arthritis), infections (e.g. viral infections), weight disorders (e.g. obesity), neuronal dysfunction disorders (e.g. Alzhehmer's disease), lung disorders (e.g. asthma), skin bone disease (e.g. esteoporosis), vascular system disorders (e.g. osteoporosis), vascular system disorders (e.g. cathma), skin condens, expendictive disorders (e.g. cathma), skin condens, expendictive disorders, tumours and
                                                                                               antipsoriatic; antimicrobial; anoretic; nootropic; neuroprotective; antiasthmatic; antiallergic; dermatological; cytostatic; gene therapy; interleukin 17; immune system disorder; infection; weight; reproductive; neuronal dysfunction; lung; asthma; skin; eczema; kidney; inflammation; glomerulonephritis; bone; osteoporosis; vascular system; ischaemia; eye; tumour; IL-17E; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Three human nucleic acids encoding interleukin 17 (IL-17) receptor like
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Inflammation. The present sequence is the coding sequence for IL-17E, numan IL-17 receptor like protein ligand.
                                                                                    Human; IL-17 receptor-like protein; immunomodulatory; antiarthritic;
                                                             receptor like protein ligand, IL-17E, coding sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        diagnosing, ameliorating or (e.g. psoriatic arthritis) and
                                                                                                                                                                                                                                                                                                                                                                                                                                                Nguyen HQ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                GS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                644 BP; 144 A; 204 C; 173 G; 123 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                               Elliot
                                                                                                                                                                                                                                                                                                                                                                                                                                               Silbiger SM,
                                                                                                                                                                                                                                            /*tag= a
/product= "Human IL-17E"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 9; Page 233-234; 239pp; English.
                                                                                                                                                                                                                 Location/Qualifiers
159..644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     polypeptides, useful for treating, preventing immune system disorders infections (e.g. viral infections)
                                                                                                                                                                                                                                                                                                                                                                    2000US-20420BP.
2000US-0723232.
2001US-266159P.
                                                                                                                                                                                                                                                                                                                                                                                                                                               'n,
                                                                                                                                                                                                                                                                                                                                16-MAR-2001; 2001WO-US08688
                                   11-FEB-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                               Yeh
                                                                                                                                                                                                                                                                                                                                                                                                                                               Medlock E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2002-055100/07
P-PSDB; AAM47464.
                                                                                                                                                                                                                                                                                                                                                                                                                    (AMGE-) AMGEN INC.
                                                                                                                                                                                                                                                                              WO200168705-A2
                                                                                                                                                                                                                                                                                                                                                                    12-MAY-2000;
27-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                                            02-FEB-2001;
                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                        16-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Aliqnment Scores:
                                                            Human IL-17
                                                                                                                                                                                                                                                                                                       20-SEP-2001
           ABA03213;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                             'n
                                                                                                                                                                                                                                                                                                                                                                                                                                               Jing
```

```
Human, Interleukin-17E ligand; IL-17E; agonist; antagonist; ss; PRO10272; DNA 147531-2821; systemic lupus erythematosus; rheumatoid arthritis; osteoarthritis; diabetes mellitus; allergic disease; asthma; demyellnating disease; defination associated disease; degenerative cartilaginous disorder; transplantation associated disease.
                                     Human cDNA encoding Interleukin 17E ligand, IL-17E
                                                                                                                                                                                                                                                                                                                                                                                                                                 /label= Mature_IL_17E
                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99US-0172096.
99WO-US31274.
2000US-0175481.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20-DEC-2000; 2000WO-US34956
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2000WO-US04341
                                                                                                                                                                                                                                                                                                                                                               /*tag= b
358..788
(first entry)
                                                                                                                                                                                                                                                                                                                       'product=
                                                                                                                                                                                                                                                                             259..791
/*tag= a
                                                                                                                                                                                                                                                                                                                                             ..357
                                                                                                                                                                                                                                                                                                                                                                                                                /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200146420-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        23-DEC-1999;
30-DEC-1999;
11-JAN-2000;
18-FEB-2000;
                                                                                                                                                                                                                   sapiens
24-OCT-2001
                                                                                                                                                                                                                                                                                                                                             sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                         mat_peptide
```

1 MetTyrGlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrp 20

US-10-037-591A-2 (1-161) x ABA03213 (1-644)

ò

644 161 0 0 0

Length:
Matches:
Conservative:
Mismatches:

4.1e-74 910.00 100.00% 100.00%

Best Local Similarity:

Query Match:

Percent Similarity:

.. 8

Indels:

Gaps:

```
553 AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA 612
/*tag= b
355..769
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200140465-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18-FEB-2000;
03-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11-JAN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20-JAN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                24 - AUG - 2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30-MAY-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              05-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   30-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    09-DEC-1999;
23-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                       22-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                07-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          mat_peptide
                                                                                                                                                                                                                                                                                                                                    AAC85969;
                                                                                                                                                                                                                                                                   RESULT 7
                                                                                                                                                                                                                                                                                     AAC85969
                                                                                                                                                                                                                                                                                                                                      셤
                                                                                         a
                                                                                                                            ò
                                                                                                                                                            셤
                                                                                                                                                                                               à
                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The sequence (DNA 147531-2821) encodes a PRO polypeptide (PRO10272)
which is the human Interleukin 17E ligand, IL-17E. A composition
containing ant-fagonists to the PRO polypeptides or individual components
are useful for treating a mammal with an immune related disease, e.g.
systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis,
luvenile chronic arthritis, a spondyloarthropathy, systemic sclerosis, an
idiopathic inflammatory myopathy, Sjogren's syndrome, systemic
vasculitis, sarcoidosis, autoinmune hemolytic anaemia, autoinmune
thrombocytopaenia, thyroiditis, diabetes mellitus, immune-mediated renal
sisease, a demyelinating disease, an autoimmune or immune-mediated skin
disease, contact dermatitis, an allegic disease e.g. food
hypersensitivity, asthma, a transplantation associated disease, or a
chronic inflammatory demyelinating polyneuropathy. Treating a
degenerative cartilaginous disorder comprises administering a PRO1031 or
PRO1122 polypeptide agonist, or antagonist to the mammal. Numerous
examples of the diseases and disorders are given in the specification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AsnArgLeuProGlnAspLeuTyrHisAlaArgCysLeuCysProHisCysValSerLeu 102
                                                                                                                                                                                                                                                  Grimaldi CJ
Vandlen RL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3 GlnvalvalAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrpProSer 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CysCysProSerLysGlyGlnAspThrSerGluGluLeuLeuArgTrpSerThrValPro 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        43 ValProProLeuGluProAlaArgProAsnArgHisProGluSerCysArgAlaSerGlu 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  63 AspGlyProLeuAsnSerArgAlaIleSerProTrpArgTyrGluLeuAspArgAspLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel PRO polypeptides homologous to interleukin-17, useful for the diagnosis and treatment of immune related disease e.g. rheumatoid arthritis and diabetes -
                                                                                                                                                                                                                                               Eilvaroff E, Fong S, Goddard A, Godowski PJ,
L, Li H, Hillan KJ, Tumas D, Van Lookeren M,
CK, Williams PM, Wood WI, Yansura DG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 1320 BP; 280 A; 353 C; 384 G; 303 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
0
0
0
0
0
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-037-591A-2 (1-161) x AAS09511 (1-1320)
                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 1; Fig 5; 188pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1.27e-72
898.00
100.00%
100.00%
98.68%
                                                                                                                                                                               2000WO-US32678
                                                                                             2000US-0644848
                                                                                                         2000WO-US23328
2000US-0242837
                                                                                                                                                2000WO-US30873
                                           :000WO-US07532
                                                                                                                                                                                                                                                                                                                                                                                                           arthritis and diabetes
                                                                                                                                                                                                                 (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                      WPI; 2001-451708/48.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                      P-PSDB; AAU04952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Percent Similarity:
                                                                                                                                                                                                                                                                                   Watanabe CK,
                                                                                                                                                            28-NOV-2000;
01-DEC-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Alignment Scores:
                                                                          22-JUN-2000;
22-AUG-2000;
                                                                                                           24-AUG-2000;
24-OCT-2000;
                                                          02-JUN-2000;
                       21-MAR-2000;
21-MAR-2000;
                                                                                                                                              10-NOV-2000
                                                                                                                                                                                                                                                  Chen J, Fi
Gurney AL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               133
```

g õ 셤

δ

셤 ö 셤 ò

ö

8xxccccccccccxxxxqqqqqqq

```
PRO; PRO1081; PRO1274; PRO10272; proliferation; T-lymphocyte;
W PRO1199; PRO4401; PRO10268; inhibition; stimulation;
PRO1199; PRO4401; PRO10268; inhibition; stimulation;
M infiltration; mononuclear cell; eosinophil; erythema multiforme;
W polymorphonuclear neutrophil; PMC; antibody; immune-related disorder;
W juvenile chronic arthritis; spondyloarthropathy; systemic sclerosis;
W juvenile chronic arthritis; spondyloarthropathy; systemic sclerosis;
idiopathic inflammatory myopathy; Sjogren's syndrome; skin disease;
W systemic vasculitis; sarcoldosis; autoimmune haemolytic anaemia; asthma;
W autoimmune thrombocytopaenia; thyroiditis; diabetes mellitus; allergy;
Immune-mediated renal disease; demyelination; central nervous system;
W cuillain-Barre syndrome; hepetobiliary disease; cosinophilic pneumonia;
Chronic active hepetitis; sclerosing cholangitis; allergic rhinitis;
Cranulomatous hepetitis; sclerosing cholangitis; food hypersensitiitity;
inflammatory bowel disease; gluten-sensitive enteropathy; urticaria; Whipple's disease; idiopathic pulmonary fibrosis; contact dermatitis;
                                                                                                                                                                                                                                                                                    143 ArgArgLeuTyrArgValSerLeuAlaCysValCysValArgProArgValMetGly 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              psoriasis; atopic dermatitis; hypersensitivity pneumonitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Native sequence of PRO10272 cDNA, clone DNA147531-2821..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "PRO10272 polypeptide"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              graft rejection; graft-versus-host disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cocation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                              BB
                                                                                                                                                                                                                                                                                                                                                                                                                                           AAC85969 standard; cDNA; 1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10-NOV-2000; 2000WO-US30873
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99WO-US28313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99US-0170262
99US-0172059
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2000US-0175481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000US-0177118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000WO-US04342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2000US-0187202
2000WO-US14941
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2000US-0209832
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2000WO-US23328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /*tag= a
/product=
259..354
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
```

613 CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACACCAGACT 672

ò

```
The sequences given in AAC85961-69 encode PRO polypeptides. PRO1081, PRO1274 and PRO10272 stimulate the proliferation of T-lymphocytes and PRO1199, PRO1565. PRO4401 and PRO10268 inhibit the proliferation of T-lymphocytes. PRO1754 and PRO9112 act to enhance the infiltration of mononuclear cells, eosinophils or polymorphonuclear neutrophils (PMN) into the tissue of a mammal. The PRO CDNA's and antibodies which bind to them, are used to treat an immune-related disorder in a mammal. Such disorders include systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis, juvenile chronic arthritis, a spondyloarthropathy, systemic sclerosis, an idiopathic inflammatory myopathy, Sjogrem's systemic vaculitis, sarcoidosis, autoimmune haemolytic anaemia, autoimmune thrombocytopaenia, thyroiditis, diabetes mellitus, immune-mediated renal disease, a demygalinating disease of the contract of 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           demyelinating polymeuropathy, Guillain-Barre syndrome, a chronic inflammatory demyelinating polymeuropathy, a hepatobiliary disease, infectious or autoimmune chronic active hepatitis, primary biliary cirrhosis, granulomatous hepatitis, sclerosing cholangitis, inflammatory bowel disease, gluten-sensitive enteropathy, Whipple's disease, an autoimmune or immune-mediated skin disease, a bullous skin disease, erythema multiforme, contact dermatitis, psoriasis, an allergic disease, athua, allergic rhinitis, atopic dermatitis, on hypersensitivity, urticaria, an immunologic disease of the lung, pheumonia, idiopathic pulmonary fibrosis, hypersensitivity pneumonia, idiopathic pulmonary fibrosis, hypersensitivity graft-versus-host disease.
                                                                                                                                                                                                                                                              Isolated PRO polypeptide useful for treat or diagnose an immune-related
                                           Hillan KJ;
                                                                                                                                                                                                                                                                                                     e.g. arthritis, asthma, allergy, diabetes or psoriasis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           disease of the central or peripheral nervous system, idiopathic
                                       Gurney AL,
                                       Grimaldi CJ,
Zhang Z;
                                       Ρ.
                                                                              Wood WI,
                                                                                                                                                                                                                                                                                                                                                                               Claim 2; Fig 17; 124pp; English.
                                       Godowski
                                                                          Watanabe CK,
                                                                                                                                                2001-381384/40.
                           Goddard A,
                                                                                                                                                                                       P-PSDB; AAB47299
                                   Fong S,
Tumas D,
                                                                                                                                                                                                                                                                                                         disorder
```

Sequence 1320 BP; 280 A; 353 C; 384 G; 303 T; 0 other;

GlnThrGlySerHisMetaspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThr 122 AsnArgLeuProGlnAspLeuTyrHisAlaArgCysLeuCysProHisCysValSerLeu 102 AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA 612 CysCysProSerLysGlyGlnAspThrSerGluGluLeuLeuArgTrpSerThrValPro 42 ValProProLeuGluProAlaArgProAsnArgHisProGluSerCysArgAlaSerGlu AspGlyProLeuAsnSerArgAlalleSerProTrpArgTyrGluLeuAspArgAspLeu 0000 Conservative: Mismatches: Matches: Length: Indels: US-10-037-591A-2 (1-161) x AAC85969 (1-1320) 1.27e-72 898.00 100.00% 100.00% 98.68% Best Local Similarity: Percent Similarity: Alignment Scores: Query Match: 313 m 23 373 43 433 63 493 83 553 103 Score: 요 셤 à 음 ò ö 셤 ð 셤 à

372

62

```
The present sequence is the coding sequence for a human PRO polypeptide (secreted and transmembrane). The PRO protein, and PRO agonists, PRO antiagonists or anti-PRO antiadoles are useful for preparation of a medicament useful in the treatment of a condition which is responsive to the PRO protein, agonists, antagonists or anti-PRO antibodies. The PRO protein may also be employed as molecular weight markers for protein electrophoresis. The PRO coding sequence has applications in molecular
biology, including use as hybridisation probes, and in chromosome and
                                               Eighty four nucleic acids encoding PRO polypeptides, useful in molecular biology, including use as hybridization probes, and in chromosome and gene mapping.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Godowski PJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 1320 BP; 280 A; 353 C; 384 G; 303 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1320
159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Goddard A,
Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gerritsen ME,
Watanabe CK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 2; Fig 155; 278pp; English.
                                                                                                                                                                                                                  Human; PRO protein; mapping; ss
                                                                                                                     AAF92135 standard; cDNA; 1320
                                                                                                                                                                                                                                                                                                                                                            99US-0169495.
99US-0170262.
2000US-0175481.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1.27e-72
898.00
                                                                                                                                                                                                                                                                                                              2000WO-US23328
                                                                                                                                                                                                                                                                                                                                                  99WO-US21090
                                                                                                                                                                                                                                                                                                                                                                                               000WO-US04341
                                                                                                                                                                                                                                                                                                                                                                                                            000WO-US04342
                                                                                                                                                                                                                                                                                                                                                                                                                       2000WO-US04414
                                                                                                                                                                                                                                                                                                                                                                                                                                   2000WO-US05601
                                                                                                                                                                                                                                                                                                                                                                                                                                               2000US-0187202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2000WO-US14042
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000US-0209832
                                                                                                                                                                                                                                                                                                                                                                                                                                                       2000US-0199397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gurney AL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ध्ये
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Filvaroff
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2001-183260/18.
                                                                                                                                                                                          Human PRO10272 cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               P-PSDB; AAB87603
                                                                                                                                                                                                                                                                WO200116318-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                            03-MAR-2000;
25-APR-2000;
22-MAY-2000;
05-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                             18-FEB-2000;
18-FEB-2000;
22-FEB-2000;
01-MAR-2000;
                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                              24-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Grimaldi CJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gene mapping.
                                                                                                                                                                                                                                                                                                                                                                                    11-JAN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Alignment Scores:
                                                                                                                                                                   15-MAY-2001
                                                                                                                                                                                                                                                                                                                                                  15-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                            07-DEC-1999;
                                                                                                                                                                                                                                                                                       08-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eaton DL,
                                                                                                                                           AAF92135;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pred. No.:
Score:
                                                                                              RESULT 8
                                                                                                       AAF92135
                        g
```

biodiversity

```
AsnArgLeuProGlnAspLeuTyrHisAlaArgCysLeuCysProHisCysValSerLeu 102
                                                                                                                                                                                                                                                                                                                           672
                                                                                                                                                                                       492
                                                                                                                                                                                                                                                                               612
                                                                                                                                           432
                                                                                                                                                                                                                                  552
                                                                                                                                                                  62
                                                                                                                                                                                                             82
                                                                                                                                  143 ArgArgLeuTyrArgValSerLeuAlaCysValCysValArgProArgValMetGly 161
                                                                                                                                                                 ValProProLeuGluProAlaArgProAsnArgHisProGluSerCysArgAlaSerGlu
                                                                                                                                                                                      Grecoroccasegeoresecaseceaseceaseceaseceaseceasesecaseses
                                                                                                                                                                                                                                                                               553 AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA
                                                                                       CysCysProSerLysGlyGlnAspThrSerGluGluLeuLeuArgTrpSerThrValPro
                                                                                                                                                                                                              AspGlyProLeuAsnSerArgAlaIleSerProTrpArgTyrGluLeuAspArgAspLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess
                                                                           3 GlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrpProSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                      0000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA encoding novel human diagnostic protein #29363
  Conservative:
           Mismatches:
Indels:
                               Gaps:
                                                      US-10-037-591A-2 (1-161) x AAF92135 (1-1320)
                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAS93559 standard; cDNA; 1355
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Tang YT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       31-MAR-2000; 2000US-0540217.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30-MAR-2001; 2001WO-US08631
100.00%
100.00%
98.68%
22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Liu C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2001-639362/73
 Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (HYSE-) HYSEQ INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               P-PSDB; ABG29372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO200175067-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     13-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Drmanac RT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11-0CT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAS93559;
                       Query Match:
                                                                                                                      23
                                                                                                                                                                  43
                                                                                                                                                                                       433
                                                                                                                                                                                                              63
                                                                                                                                                                                                                                   493
                                                                                                                                                                                                                                                         83
                                                                                                                                                                                                                                                                                                                                                                                                                                              AAS93559
                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                    ద
                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ŏ
                                                                                               a
                                                                                                                                          g
                                                                                                                                                                                       셤
                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                      ò
                                                                                                                                                                 ò
                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                         ò
```

```
The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polypeptide (II) sequences. (I) is useful as hybridisation probes, and gene mapping, and in recombinant production of (II). The cand gene mapping, and in recombinant production of (II). The cand gene also used in diagnostics as expressed sequence tags to identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving to restore normal activity of (II) or to treat disease states involving antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful in medical imaging of sites expressing (II). (I) and (II) are useful in medical disorders involving aberrant protein expression or biological activity. The polypeptide and polynuclectide sequences have applications in caspostics, forensics, gene mapping, identification of mutations and to produce other types of data and products dependent on DNA and diagnostic coding sequences of data and products dependent on DNA and diagnostic coding sequences of fate invention.

Specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   82 AGGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACCTACAGCCACTGCCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   142 TGCTGCCCCAGCAAAGGCAGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        43 ValproProLeuGluProAlaArgProAsnArgHisProGluSerCysArgAlaSerGlu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LeuCysProHisCysValSerLeuGlnThrGlySerHisMetAspProArgGlyAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTGTGCCCCGCACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCCCGGGGCAACTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GluLeuLeuTyrHisAsnGlnThrValPheTyrArgArgProCysHisGlyGluLysGly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 23 CysCysProSerLysGlyGlnAspThrSerGluGluLeuLeuArgTrpSerThrValPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3 GlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrpProSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 1355 BP; 277 A; 421 C; 383 G; 274 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length:
Matches:
Conservative:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches:
Indels:
Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                             ftp.wipo.int/pub/published_pct_sequences
                                 SEQ ID No 29363; 103pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (1-1355)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ValCysValArgProArgValMet 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-037-591A-2 (1-161) x AAS93559
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTGTTGGTGGGCCCTACGAGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9.08e-67
834.00
91.67%
91.07%
91.65%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             382
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 442
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              562
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ŏλ
ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  අ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
```

420

240

72

52

300

92

σ

```
Interleukin; IL-171; cytokine; CTLA-8; IL-17; IL-175; IL-172; IL-173;
IL-174; IL-176; IL-177; cell proliferation; cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New DNA sequence encoding a mammalian homolog of CTLA-8, designated interleukin-171 (IL-171), useful for recombinant production of IL-171 which can be used for treating conditions associated with abnormal physiology or development -
                                                                                                                              GluGluLeuLeuArgTrpSerThrValProValProProLeuGluProAlaArgProAsn
                                                                                                                                                                                                ArgCysLeuCysProHisCysValSerLeuGlnThrGlySerHisMetAspProArgGly
                                                                                                                                                                                                                                                             113 AsnSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArgArgProCysHisGlyGlu
                                                                                                                                                                                                                                                                                cDNA encoding a murine interleukin-174 polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /*tag= a
/product= "interleukin-174"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Kastelein RA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 21; 111pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                           BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAA59160 standard; cDNA; 985
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99US-0229402.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10-JAN-2000; 2000WO-US00005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            07-NOV-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 υ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1..48
/*tag=
49..507
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SCHE ) SCHERING CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bazan JF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2000-476060/41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      P-PSDB; AAB07694.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200042187-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-JUL-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gorman DM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mus sp
33
                                                                                                                                                                                              93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAA59160
                         g
                                                               ò
                                                                                            g.
                                                                                                                                δ
                                                                                                                                                            g
                                                                                                                                                                                                ò
                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                             ŏ
                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present sequence encodes an interleukin-174 (IL-174) polypeptide. The polypeptide is an IL-17-like (CTLA-8 related) protein. It is a member of a new group of interleukins, IL-170 polypeptides. The members comprise IL-171. IL-173, IL-174, IL-176, IL-177, and IL-171. IL-170 protein can be used to treat abnormal proliferation e.g. cancer or degenerative conditions. Antibodies can be used in diagnostic methods to detect over production of IL-170 protein in cells or body
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New isolated polynucleotide encoding a mammalian Interleukin-17 like protein used to identify genes for homologous proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      32
                                                                                                                                                                 IL-173; IL-174; IL-176; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MetTyrGlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyr-
                                                                                                                                         cDNA encoding a murine interleukin (IL) 174 polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            268 G; 222 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                         Interleukin; IL-17; CTLA-8; IL-170; IL-172;
IL-177; IL-171; cell proliferation; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-037-591A-2 (1-161) x AAA58988 (1-985)
                                                                                                                                                                                                                                                       Location/Qualifiers
1.510
1.510
1.48
1.48
/*teg- b
/*teg- c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Kastelein RA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 18; 111pp; English
                                         AAA58988 standard; cDNA; 985 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            985 BP; 199 A; 296 C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1.55e-55
709.00
82.14%
76.79%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           99US-0228822
                                                                                                                                                                                                                                                                                                                                                                                                                                                        10-JAN-2000; 2000WO-US00006
                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bazan JF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (SCHE ) SCHERING CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2000-466130/40.
P-PSDB; AAB07600.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                         WO200042188-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Percent Similarity:
                                                                                                        07-NOV-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Alignment Scores:
                                                                                                                                                                                                                                                                                                          sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                        20-JUL-2000
                                                                                                                                                                                                                                                                                                                                           mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gorman DM,
                                                                         AAA58988;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                         Mus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             fluids
                         AAA58988
          RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred.
```

g ð

ö g

```
The present sequence encodes an interleukin (IL)-174 polypeptide. It is a mammalian homologue of the cytokine designated CTLA-8 (also referred to as. IL-17). The specification also describes homologues IL-171, IL-172, IL-172, IL-173, IL-174, IL-176, and IL-177. The DNA sequence encoding IL-171 is useful for identifying genes, mRNA and CDNA molecules which code for related or homologous proteins. The IL-171 protein, antibodies against IL-171, and compounds which have binding affinity to IL-171 are useful in treatment of conditions associated with abnormal physiology or development, including abnormal proliferation, e.g. cancerous conditions, or degenerative conditions. The IL-171 protein can be used in kits and assay methods for identifying compounds that selectively bind to IL-171.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 ATCCAGGAGGCTGCAGTCACTTGCCCAGCTGCTGCCCAGCAAGAAGAGCAAGAACCCCCG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ArgCysLeuCysProHisCysValSerLeuGlnThrGlySerHisMetAspProArgGly 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   92
                                                                                                                                                                                                                                                                                                                                                                                                           09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           72
                                                                                                                                                                                                                                                                                                                                                                                LysGlyThrHisLysGlyTyrCysLeuGluArgArgLeuTyrArgValSerLeuAlaCys :::!||||||||||:::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GluGluLeuLeuArgTrpSerThrValProValProProLeuGluProAlaArgProAsn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ProTrpArgTyrGluLeuAspArgAspLeuAsnArgLeuProGlnAspLeuTyrHisAla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CGATGCCTGTGCCCACACTGCGTCACCTACAGACAGGCTCCCACATGGACCGCTGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AsnSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArgArgProCysHisGlyGlu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     421 GAAGGTACCCATCGCCGCTACTGCTTGGAGCGCAGGCTCTACCGAGTCTCCTTGGCTTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                          53 ArgHisProGluSerCysArgAlaSerGluAspGlyProLeuAsnSerArgAlaIleSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mouse; murine; interleukin 174; IL-174; cytokine; Th2 response;
                                                                                                                                                                                                     Sequence 985 BP; 199 A; 296 C; 268 G; 222 T; 0 other;
                                                                                                                                                                                                                                               985
129
9 22
1 1
                                                                                                                                                                                                                                               Length:
Matches:
Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Murine interleukin 174 (IL-174)-encoding DNA
                                                                                                                                                                                                                                                                                                           Indels:
                                                                                                                                                                                                                                                                                                                       Gaps:
                                                                                                                                                                                                                                                                                                                                                    US-10-037-591A-2 (1-161) x AAA59160 (1-985)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ValCysValArgProArgValMet 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABA02394 standard; DNA; 985 BP.
                                                                                                                                                                                                                                            1.55e-55
709.00
82.14%
76.79%
77.91%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                      Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           26-FEB-2002
                                                                                                                                                                                                                                  Alignment Scores:
                                                                                                                                                                                                                                                  Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                133
                                                                                                                                                                                                                                                                                                                                                                                                                                           18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABA02394
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       윱.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               XXXXXXXXX
*8888888888888888
                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                           ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                 ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
```

```
The invention relates to methods of directing an immune response in a mammal by the administration of an agonist or antagonist of the cytokine interleukin 174 (IL-174). Administration of an IL-174 agonist directs the immune response towards a Th2 response, stimulates an innate immune response towards a Th2 response, stimulates an innate immune response, augments the inflammatory response from epithelial or fibroblast cells, induces gut cell growth, promotes extramedulary haematopoiesis, or augments an antibody response in serum and faecal material, while administration of an IL-174 antagonist directs the immune response away from a Th2 type response, and prevents inflammation or granuloma formation. IL-174 agonists may be used to treat autoimmune conditions (particularly multiple sclerosis, systemic lupus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  erythematosus, rheumatoid arthritis, diabetes or psoriasis), a response to an infectious agent, or inflammatory conditions such as Crohn's disease, ulcerative colitis, pancreatitis, or hepatitis. IL-174 antagonists may be used to treat inflammatory, allergic or Th2-mediated conditions (e.g., systemic anaphylactic response, skin hypersensitivity response, dermatitis, asthma, fibrosis, or eosinophilic gastritis). The present sequence represents DNA encoding murine IL-174.
innate immune response; inflammation; gut cell growth; extramedullary haematopoiesis; antibody response; granuloma formation; extramedullary haematopoiesis; antibody response; granuloma tour autoimmune condition; multiple sclerosis; systemic lupus erythematosus; rheumatoid arthritis; dlabetes; psoriasis; infectious agent; inflammatory condition; Crohn's disease; ulcerative colitis; pancreatitis; hepatitis; allergy; Th2-mediated condition; systemic anaphylactic response; Rxin hypersensitivity response; dermatitis; asthma; fibrosis; eosinophilic gastritis; immunomodulator; antiinflammatory; antiarthritis; antidiabetic; antifungal; dermatological; neuroprotective; antiallergic; agonist; antagonist; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Administering an interleukin 174 agonist or antagonist to a mammal regulates various immune and inflammatory responses and is useful ttreat for example autoimmune diseases, allergies or response to an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /product= "Mature murine IL-174"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Murine IL-174"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 28-29; 29pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Rennick DM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              18-APR-2000; 2000US-198488P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17-APR-2001; 2001WO-US12493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /product=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ø
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   υ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /*tag=
49..507
/*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hurst SD, Zurawski SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1..510
/*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (SCHE ) SCHERING CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2002-034343/04.
P-PSDB; AAM52692.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO200179288-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-OCT-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         infection
                                                                                                                                                                                                                                                                                                                                                                                                                   Mus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Key
CDS
               NAME OF THE PROPERTY OF THE PR
```

BP; 199 A; 296 C; 268 G; 222 T; 0 other;

Sequence 985 Alignment Scores:

Conservative: Mismatches: Matches:

1,55e-55 709.00 82.14% 76.79% 77.91%

Percent Similarity: Best Local Similarity: Query Match: DB:

Score: Pred.

Length:

Indels: Gaps:

```
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                              ..
No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             --
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  33
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  å
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mouse; Interleukin-17 like; IL-17L; immune system dysfunction; diabetes; cytostatic; multiple sclerosis: rheumatoid arthritis; therapy; lupus; inflammatory bowel disease; neuronal dysfunction; trasplant rejection; autoimmune disorder; lung; skin; kidney; bone; eye; vascular system; infection; hepatitis; obesity; anorexia; cachexia; glomerulonephritis; cystic fibrosis; Alzheimer's disease; Parkinson's disease; emphysema; eczema; sepsis; psoriasis; wound healing; osteoporosis; Paget's disease; epplepsy; atherosclerosis; heart failure; anglogenesis; endometriosis; leukaemia; retinal neuropathy; infertility; miscarriage; inflammation;
                                                                                                                                180
                                                                                                                                                                         240
                                                                                                                                                                                                                    300
                                                                                                                                                                                                                                          112
                                                                                                                                                                                                                                                               360
                                                                                                                                                                                                                                                                                                        420
                                                                                                                                                    72
                                                                                                                                                                                               92
                                            9
                                                                                                                                                                                                                                                                                                                           |||||||| ||||::|||||||::
GAGGAGTGGCTGAAGTGGAGCTCTGCACACCCCCCCACAGAGCCTCTGAGCCACACC
                                                                                                                                                                                            ...-SerHisTrpProSerCysCysProSerLysGlyGlnAspThrSer
                                                                           61 ATCCAGGAGGCTGCAGTCACTTGCCCAGCTGCTGCCCCGGCAAGAAGAACCCCCG
                                                                                                                                                                        181 CACCACGCAGAATCCTGCAGGCCAGCAAGGATGGCCCCCTCAACAGCAGGGCCATCTCT
                                                                                                          GluGluLeuLeuArgTrpSerThrValProValProProLeuGluProAlaArgProAsn
                                                                                                                                                   ArgHisProGluSerCysArgAlaSerGluAspGlyProLeuAsnSerArgAlaIleSer
                                                                                                                                                                                                                                                                                   AsnSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArgArgProCysHisGlyGlu
                      MetTyrGlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyr-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /*tag= c
/product= "Mature IL-17L protein"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Mouse IL-17L protein"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mouse Interleukin-17 like (IL-17L) cDNA.
 (1-161) x ABA02394 (1-985)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Socation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                         ValCysValArgProArgValMet 160
                                                                                                                                                                                                                                                                                                                                                                                    BP,
                                                                                                                                                                                                                                                                                                                                                                                                                                       AAD28772 standard; cDNA; 1013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /product= ".
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Д
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /*tag= 154.507
/*tag= c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ...510
*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200208285-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mus musculus
US-10-037-591A-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  07-MAY-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cancer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAD28772;
                                                                                                                                                                                                                                                                                                                                                                         153
                                                                                                                              121
                                                                                                                                                                                                                   241
                                                                                                                                                                                                                                                                                   113
                                                                                                                                                                                                                                                                                                                              133
                                                                                                                                                                                                                                                                                                                                                                                              481
                                                               18
                                                                                                                                                                                             73
                                                                                                                                                                                                                                        93
                                                                                                                                                                                                                                                                                                                                                   421
                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 13
                                                                                                                                                                                                                                                                                                                                                                                                                              AAD2877
                                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                   엄
                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                               ð
                                                                                   g
                                                                                                                             g
                                                                                                                                                                       a
                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                         ö
                                         셤
                                                                                                          à
                                                                                                                                                   ð
                                                                                                                                                                                              å
                                                                                                                                                                                                                                         ò
```

```
Theumatoid arthritis, osteoarthritis, inflammatory joint disease);
autoimmune (multiple sclerosis, lupus, diabetes, inflammatory bowel
disease, transplant rejection, graft vs. host disease); infections (HIV,
(hepatitis, bacterial); weight disorders (obesity, anorexia, cachexia,
sepsis); neuronal dysfunction (Alzheimer's, Parkinson's disease); lung
cacute respiratory distress syndrome, cystic fibrosis, emphysema); skin
(psoriasis, eczema, wound healing); kidney (glomerulonephritis); bone
(osteoporosis, Paget's disease, hypercalcaemia) vascular system (epilepsy
atheroscierosis, heart fallure, anglogenesis); tumours, cancers (lymphoma
leukaemia); reproductive (infertility, miscarriage, endometriosis),
eve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              nflammation. The present sequence is mouse Interleukin-17 like (IL-17L)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to nucleic acid molecules encoding Interleukin 17 (IL-17)-ilke polypeptides. IL-17 DNA can be used to modulate the levels of IL-17 protein in an animal. The IL-17 protein is useful for treating, preventing or ameliorating a disease, such as immune system dysfunction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 ATCCAGGAGGCTGCAGTACCTTGCCCAGCTGCCCCAGCAAAAACCCCCG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ArgCysLeuCysProHisCysValSerLeuGlnThrGlySerHisMetAspProArgGly 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181 CACCACGCAGAATCCTGCAGGGCCAGCAAGGATGGCCCCCTCAACAGCAGGGCCATCTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ------SerHisTrpProSerCysCysProSerLysGlyGlnAspThrSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GluGluLeuLeuArgTrpSerThrValProValProProLeuGluProAlaArgProAsn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GAGGAGTGGCTGAAGTGGAGCTCTGCATCTGTGTCCCCCCCAGAGCCTCTGAGCCACACAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ArgHisProGluSerCysArgAlaSerGluAspGlyProLeuAsnSerArgAlaIleSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ProTrpArgTyrGluLeuAspArgAspLeuAsnArgLeuProGlnAspLeuTyrHisAla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            οf
                                                                                                                                                                                                                                                                                                                  ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nucleic acid molecules encoding Interleukin 17\ (\text{IL-}17) - like polypeptides useful in the treatment, prevention and diagnosis
                                                                                                                                                                                                                                                                                                                  Jing
                                                                                                                                                                                                                                                                                                                  Nguyen HQ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MetTyrGlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C; 268 G; 221 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length:
Matches:
Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                  Elliot GS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-037-591A-2 (1-161) x AAD28772 (1-1013)
                                                                                                                                                                                                                                                                                                                  Silbiger SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 1; Fig 2; 242pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 1013 BP; 227 A; 297
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1.61e-55
709.00
82.14%
76.79%
77.91%
                                                                                                                    22-JUN-2000; 2000US-213125P.
02-FEB-2001; 2001US-266159P.
16-MAR-2001; 2001US-0810384.
                                                           21-JUN-2001; 2001WO-US19861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 diseases e.g. cancer
                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2002-155217/20
                                                                                                                                                                                                                                                                                                                  Yeh R,
                                                                                                                                                                                                                                                      (AMGE-) AMGEN INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                  P-PSDB; AAE18121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Percent Similarity
Best Local Similari
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Alignment Scores:
31-JAN-2002
                                                                                                                                                                                                                                                                                                                     Medlock E,
```

```
(hepatitis, bacterial); weight disorders (obesity, anorexia, cachexia
                                                                                                                                                                                                          Percent Similarity
                                                                                                                                                                     Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      07-NOV-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAA58987;
                                                                                                                                                                                                                                    Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mus sp.
                                                                                                                                                                                  ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              95
                                                                                                                                                                                                                                                                                                                                                    18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 15
                                                                                                                                                                                                 Score:
                                                                                                                                                                                  Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Op
  888888888888
                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  δ
                                                                                                                                                                                                                                                                                                                                                    δ
                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        õ
                                                                                                                                                                                                                                                                                                                     Mouse; interleukin-17 like; IL-17L; immune system dysfunction; diabetes; cytostatic; multiple sclerosis; rheumatoid arthritis; therapy; lupus; inflammatory bowel disease; neuronal dysfunction; transplant rejection; autoimmune disorder; lung; skin; kidney; bone; eye; vascular system; infection; hepatitis; obesity; anorexia; cachexia; glomerulonephritis; eystic fibrosis; Alzhaimer's disease; Parkinson's disease; emphysema; eczema; sepsis; psoriasis; wound healing; osteoporosis; paget's disease; epilepsy; atherosclerosis; heart failure; angiogenesis; endometriosis; leukaemia; retinal neuropathy; infertility; miscarriage; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to nucleic acid molecules encoding Interleukin 17 (IL-17)-like polypeptides. IL-17 DNA can be used to modulate the levels of IL-17 protein in an animal. The IL-17 protein is useful for treating, preventing or ameliorating a disease, uch as immune system dysfunction (rheumatoid arthritis, osteoarthritis, inflammatory joint disease); autoimmune (multiple sclerosis, lupus, diabetes, inflammatory bowel disease, transplant rejection, graft vs. host disease); infections (HIV,
AsnSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArgArgProCysHisGlyGlu 132
                                                               AACTCCGTCCCACTTTACCACAACCAGACGGTCTTCTACCGGCGGCCATGCCATGGCGAG 420
                                                                                                        GAAGGTACCCATCGCCGCTACTGCTTGGAGCGCAGGCTCTACCGAGTCTCCTTGGCTTGT 480
                                                                                       133 LysGlyThrHisLysGlyTyrCysLeuGluArgArgLeuTyrArgValSerLeuAlaCys 152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Mouse non-secreted form of IL-17L protein"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nucleic acid molecules encoding Interleukin 17 (IL-17) - like polypeptides useful in the treatment, prevention and diagnosis of
                                                                                                                                                                                                                                                                                                non-secreted form of Interleukin-17 like (IL-17L) cDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nguyen HQ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Elliot GS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
511..993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SM,
                                                                                                                                           ValCysValArgProArgValMet 160
                                                                                                                                                        ВР
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 1; Fig 2; 242pp; English.
                                                                                                                                                                                                                       AAD28773 standard; cDNA; 1496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Silbiger
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       22-JUN-2000; 2000US-213125P. 02-FEB-2001; 2001US-266159P. 16-MAR-2001; 2001US-0810384.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21-JUN-2001; 2001WO-US19861
                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /product-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ø
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                diseases e.g. cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2002-155217/20.
P-PSDB; AAE18122.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Yeh R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (AMGE-) AMGEN INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200208285-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       02-FEB-2001;
16-MAR-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mus musculus.
                                                                                                                                                                                                                                                                         07-MAY-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         31-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Medlock E,
                                                                                                                                                                                                                                                                                                                                                                                                                                            cancer; ss
                                                                                                                                                                                                                                               AAD28773;
                                                                                                                421
            301
                                     113
                                                               361
                                                                                                                                           153
                                                                                                                                                                                              RESULT
                                                                                                                                                                                                                                    g
            셤
                                     ò
                                                               셤
                                                                                         ŏ
                                                                                                                g
                                                                                                                                           à
                                                                                                                                                                                                                        G
```

```
(osteoporosis, Paget's disease, hypercalcaemia) vascular system (epilepsy atherosclerosis, heart failure, andiogenesis); tumours, cancers (lymphoma leukaemia); reproductive (infertility, miscarriage, endometriosis), eye (blindness, retinal neuropathy) and treatment of diseases involving
sepsis); neuronal dysfunction (Alzheimer's, Parkinson's disease); lung (acute respiratory distress syndrome, cystic fibrosis, emphysema); skin (psorlasis, eczema, wound healing); kidney (glomerulonephritis); bone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IL-173; IL-174; IL-176; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LeuCysProHisCysValSerLeuGlnThrGlySerHisMetAspProArgGlyAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        790 CIGIGCCCACACIGCGICAGCCIACAGACAGGCICCCACAIGGACCCGCIGGGCAACICC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  55 ProGluSerCysArgAlaSerGluAspGlyProLeuAsnSerArgAlalleSerProTrp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ----SerHisTrpProSerCysCysProSerLysGlyGlnAspThrSerGluGlu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 35 LeuLeuArgTrpSerThrValProValProProLeuGluProAlaArgProAsnArgHis
                                                                                                                          inflammation. The present sequence is non-secreted form of mouse
Interleukin-17 like (IL-17L) cDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cDNA encoding a murine interleukin (IL) 174 polypeptide.
                                                                                                                                                                                        Sequence 1496 BP; 347 A; 417 C; 410 G; 322 T; 0 other;
                                                                                                                                                                                                                                             1496
126
10
22
8
                                                                                                                                                                                                                                             Length:
Matches:
Conservative:
                                                                                                                                                                                                                                                                                                       Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Interleukin; IL-17; CTLA-8; IL-170; IL-172;
IL-177; IL-171; cell proliferation; cancer;
                                                                                                                                                                                                                                                                                                                           Indels:
                                                                                                                                                                                                                                                                                                                                              Gaps:
                                                                                                                                                                                                                                                                                                                                                                                US-10-037-591A-2 (1-161) x AAD28773 (1-1496)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ВР
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAA58987 standard; cDNA; 620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      155 ValArgProArgValMet 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        970 GTGCGCCCGGGTCATG 987
                                                                                                                                                                                                                                             7.6e-54
693.00
81.93%
75.90%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                       Best Local Similarity:
```

```
The polypeptide is an IL-17-like (CTLA-8 related) protein. It is a member of a new group of interleukins, IL-170 polypeptides. The members comprise IL-172, IL-173, IL-174, IL-176, IL-177, and IL-171. IL-170 protein can be used to treat abnormal proliferation e.g. cancer or degenerative conditions. Antibodies can be used in diagnostic methods to detect over production of IL-170 protein in cells or body
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SerGluLeuLeuTyrHisAsnGlnThrValPheTyrArgArgProCysHisGlyGluLys 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GlyThrHisLysGlyTyrCysLeuGluArgArgLeuTyrArgValSerLeuAlaCysVal 153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              encodes an interleukin-174 (IL-174) polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CysLeuCysProHisCysValSerLeuGlnThrGlySerHisMetAspProArgGlyAsn 113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New isolated polynucleotide encoding a mammalian Interleukin-17 like protein used to identify genes for homologous proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 34 GluLeuLeuArgTrpSerThrValProValProProLeuGluProAlaArgProAsnArg 53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         54 HisProGluSerCysArgAlaSerGluAspGlyProLeuAsnSerArgAlaIleSerPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GAGTGGCTGAAGTGGAGCTCTGCTATCCCCCCCAGAGCCTCTGAGCCACACCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TrpArgTyrGluLeuAspArgAspLeuAsnArgLeuProGlnAspLeuTyrHisAlaArg
                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 620 BP; 125 A; 183 C; 188 G; 124 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length:
Matches:
Conservative:
Mismatches:
Indels:
Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-037-591A-2 (1-161) x AAA58987 (1-620)
                                                                                                                                                              Kastelein RA;
                                                                                                                                                                                                                                                                           Disclosure; Page 17; 111pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CysValArgProArgValMet 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGTGTGCGGCCCCGGGTCATG 403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4.45e-36
493.00
84.25%
78.74%
54.18%
                                                                       10-JAN-2000; 2000WO-US00006
                                                                                                  99US-0228822
                                                                                                                               (SCHE ) SCHERING CORP
                                                                                                                                                             Bazan JF,
                                                                                                                                                                                                                                                                                                           present sequence
                                                                                                                                                                                       WPI; 2000-466130/40.
P-PSDB; AAB07599.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Percent Similarity:
Best Local Similarity:
Query Match:
             WO200042188-A2
                                                                                                11-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Alignment Scores:
                                          20-JUL-2000
                                                                                                                                                             Gorman DM,
                                                                                                                                                                                                                                                                                                                                                                                                              fluids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     383
δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ŏ
```

85 73 93

Search completed: May 12, 2003, 02:05:54 Job time : 166 secs

May 12, 2003, 00:33:18 ; Search time 163 Seconds (without alignments) 8897.466 Million cell updates/sec 644 1 ctcaagtcactccctaaaaa.....gccccgtgtgatgggctag 644 /SIDS2/gcgdata/geneseq/geneseqn-embl/Na1980.DAT:
/SIDS2/gcgdata/geneseq/geneseqn-embl/Na1981.DAT:
/SIDS2/gcgdata/geneseq/geneseqn-embl/Na1982.DAT:
/SIDS2/gcgdata/geneseq/geneseqn-embl/Na1982.DAT:
/SIDS2/gcgdata/geneseq/geneseqn-embl/Na1983.DAT:
/SIDS2/gcgdata/geneseq/geneseqn-embl/Na1984.DAT:
/SIDS2/gcgdata/geneseq/geneseqn-embl/Na1986.DAT:
/SIDS2/gcgdata/geneseq/geneseqn-embl/Na1986.DAT:
/SIDS2/gcgdata/geneseq/geneseqn-embl/Na1986.DAT:
/SIDS2/gcgdata/geneseq/geneseqn-embl/Na1986.DAT:
/SIDS2/gcgdata/geneseq/geneseqn-embl/Na1986.DAT: /SIDS2/gcgdata/geneseq/geneseqn-embl/NA1989.DAT /gcgdata/geneseq/genesegn-embl/NA1990.DAT /SIDS2/gcgdata/geneseq/geneseqn-embl/NA199C /SIDS2/gcgdata/geneseq/geneseqn-embl/NA1991 4370478 GenCore version 5.1.4_p5_4578 Copyright (c) 1993 - 2003 Compugen Ltd. Total number of hits satisfying chosen parameters: 2185239 segs, 1125999159 residues Maximum Match 100% Listing first 45 summaries OM nucleic – nucleic search, using sw model IDENTITY_NUC Gapop 10.0 , Gapext 1.0 N_Geneseq_101002:* Minimum DB seq length: 0 Maximum DB seq length: 200000000 Post-processing: Minimum Match 0% US-10-037-591A-1 Perfect score: Scoring table: Database : Sequence: Searched: Run on: Title:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution. /SIDS2/gcgdata/geneseg/genesegn-embl/NA2001A.DAT./SIDS2/gcgdata/geneseg/genesegn-embl/NA2001B.DAT. /SIDS2/gcgdata/geneseq/genesegn-embl/NA2002.DAT:*

cgdata/geneseq/genesegn-embl/NA1998.DAT

/SIDS2/gcgdata/geneseq/genesegn-embl/NA1997 /SIDS2/gcgdata/geneseq/genesegn-embl/NA1999

genesedn-embl/NA1996.

'gcgdata/geneseq/genesegn-embl/NA1994.

/SIDS2/gcgdata/geneseq/genesegn-emb1/NA19

/gcgdata/geneseg/

/SIDS2, /sids2

/SIDS2

/SIDS2/gcgdata/geneseq/geneseqn-embl/NA1993

/SIDS2/gcgdata/geneseg

genesegn-embl/NA1992

/SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT

	Description	Human Interleukin-	Human IL-17 recept	cDNA encoding a hu	cDNA encoding a hu	Human interleukin	Human cDNA encodin	Native sequence of	Human PRO10272 cDN	DNA encoding novel
SUMMARIES	ΩI	AAD28771	ABA03213	AAA58986	AAA59158	ABA02393	AAS09511	AAC85969	AAF92135	AAS93559
	DB	24	24	21	21	24	22	22	22	23
	Query e Match Length DB	644	644	504	504	504	1320	1320	1320	1355
ф	Query	100.0	100.0	9.9/	9.9/	9.92	74.3	74.3	74.3	64.9
	Score	644	644	493	493	493	478.4	478.4	478.4	418.2
	Result No.	1	7	m	4	ហ	9	7	80	σ

Mouse Interleukin- Mouse non-secreted CDNA encoding a mu Nuclectide sequenc Human interleukin- Human interleukin- Human LD-48 gene. CDNA encoding a no Human CDNA encoding Human CDNA encoding Human interleukin Human interleukin Human interleukin CDNA encoding a hu CDNA encoding a	0 5
AAD2877 AAD2877 AAA5916 ABA0239 AAA5916 ABA0239 AAA3683 AAA3683 AAA3683 AAA5915 AAA5916 AAA5916 AAA5916 AAA5916 AAA5918 AAA5918 AAA5918 AAA5918 AAA5918 AAA5918 AAA5918 AAA5918	AAC39 AAC30 AAC91 AAC91 AAA95 AAH79 AAA15
88 88 88 88 88 88 88 88 88 88 88 88 88	
1013 9885 9885 9885 620 620 1067 1067 1067 1077 1107 1107 1107 110	
$\begin{array}{c} \text{CUUNUWW}\\ \text{CUUUUW}\\ \text{CUUUW}\\ \text{CUUW}\\ \text{CUUUW}\\ \text{CUUW}\\ \text{CUUUW}\\ CU$	
8.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
01111111111102222222222222222222222222	0 C 8 C C C C C C C C C C C C C C C C C
v	

Human; interleukin-17 like; IL-17L; immune system dysfunction; diabetes; cytostatic; multiple sclerosis; rheumatoid arthritis; therapy; lupus; inflammatory bowel disease; neuronal dysfunction; transplant rejection; Human Interleukin-17 like (IL-17L) cDNA. BP. AAD28771 standard; cDNA; 644 (first entry) 07-MAY-2002 AAD28771;

ALIGNMENTS

RESULT 1 AAD2877

autolmmune disorder; lung; skin; kidney; bone; eye; vascular system; infection; hepatitis; obesity; anorexia; cachexia; glomerulonephritis; eystic fibrosis; Alzheimer's disease; Parkinson's disease; emphysema; eczema; sepsis; psorlasis; wound healing; osteoporosis; Pager's disease; epilepsy; atherosclerosis; heart failure; angiogenesis; endometriosis; leukaemia; retinal neuropathy; infertility; miscarriage; inflammation; /*tag= c /product= "Mature IL-17L protein" "Human IL-17L protein" Location/Qualifiers 159..644. /*tag= a /product= 159..206 207..641 /*tag= c *tag= Homo sapiens. sig_peptide mat_peptide cancer; ss Key

```
Human; IL-17 receptor-like protein; immunomodulatory; antiarthritic; antipsoriatic; antimicrobial; anoretic; nootropic; neuroprotective; antiasthmatic; antiallergic; dermatological; cytostatic; gene therapy; interleukin 17; immune system disorder; infection; weight; reproductive; neuronal dysfunction; lung; asthma; skin; eczema; kidney; inflammation; glomerulomphritis; bone; osteoporosis; vascular system; ischaemla; eye;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Three human nucleic acids encoding interleukin 17 (IL-17) receptor like polypeptides, useful for treating, diagnosing, ameliorating or preventing immune system disorders (e.g. psoriatic arthritis) and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to novel human nucleic acids encoding interleukin 17 (IL-11) receptor like proteins (see ABA03200-ABA03202, AAM47456, AAM47458 and AAM47459). The IL-17 receptor-like proteins and
                                                                                                                            CATGCCATGGCGAGAAGGGCACCCACAAGGGCTAACTGCCTGGAGCGCAGGCTGTACCGTG
receptor like protein ligand, IL-17E, coding sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nguyen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Elliot GS,
                                                                                                                                                                                                                                                                                644
                                                                                                                                                                                                                                                                                                      601 TTTCCTTAGCTTGTGTGTGTGTGCGCCCCGTGTGTGTGGCCTAG
                                                                                                                                                                                                                                                                                TTTCCTTAGCTTGTGTGTGTGCGGCCCCGTGTGATGGGCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Silbiger SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "Human IL-17E"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 9; Page 233-234; 239pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      infections (e.g. viral infections)
                                                                                                                                                                                                                                                                                                                                                                                                                   BP
                                                                                                                                                                                                                                                                                                                                                                                                                   ABA03213 standard; cDNA; 644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Yeh R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16-WAR-2000; 2000US-189923P.
12-MAY-2000; 2000US-204208P.
27-NOV-2000; 2000US-0723232.
02-FEB-2001; 2001US-266159P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /*tag= a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2002-055100/07.
P-PSDB; AAM47464.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Jing S, Medlock E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (AMGE-) AMGEN INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO200168705-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16-MAR-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human IL-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABA03213;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo
                                                              421
                         361
                                                                                               421
                                                                                                                                                                                                                                                                                    601
                                                                                                                                                                                                                                                                                                                                                                                                   ABA03213
                                                                                                                                                                                                                                                                                                                                                                                  RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                 g
                                                                                                                                    ŏ
                                                                                                                                                                         g
                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to nucleic acid molecules encoding Interleukin 17 (IL-17)-like polypeptides. IL-17 DNA can be used to modulate the levels of IL-17 protein in an animal. The IL-17 protein is useful for treating, preventing or ameliorating a disease, such as immune system dysfunction remembered arthritis, osteoarthritis, inflammatory joint disease); cutoimmune (multiple sclerosis, lupus, diabetes, inflammatory bowel disease, transplant rejection, graft vs. host disease); infections (HIV, chepatitis, bacterial); weight disorders (obesity, anorexia, cachexia, sepsis); neuronal dysfunction (Alzheimer's, Parkinson's disease); lung (acute respiratory distress syndrome, cystic fibrosis, emphysema); skin (psoriasis, eczema, wound healing); kidney (glomerutonephritis); bone (osteoporosis, Paget's disease, hypercalcaemia) vascular system (epilepsy atherososis, heart failure, angiogenesis); tumours, cancers (lymphoma leuwaemia); reproductive (infertility, miscarriage, endometriosis), eye (blindness, retinal neuropathy) and treatment of diseases involving inflammation. The present sequence is human Interleukin-17 like (IL-17L)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GAAAATAAAATCAGGACTCCTAACCTGCTCCAGTCAGCCTGCTTCCACGAGGCCTGTCAG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCAGTGAAGATGGACCCCTCAACA 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCAGTGCCCCACTTGTGACTGAGTGTGCCAGTGCCCAGCATGTACCAGGTGGTTGCATTCT 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        361 GCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTGAACCGGCTCCCCCAGG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 CTCAAGTCACTCCCTAAAAGACAGTGGAAATAAATTTGAATAAACAAAACAGGCTTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TGGCAATGGTCATGGGAACCCACACCTACAGCCACTGGCCCAGCTGCTGCCCCAGCAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGCAGGACACCICTGAGGAGCTGCTGAGGTGGAGCACTGTGCCTGTGCCTCCCCTAGAGC
                                                                                                                                                                                                                                                                                                                                                                oĮ
                                                                                                                                                                                                                                                     s,
                                                                                                                                                                                                                                                                                                                                           Nucleic acid molecules encoding Interleukin 17 (IL-17) - like polypeptides useful in the treatment, prevention and diagnosis diseases e.g. cancer -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                     Jing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%; Score 644; DB 24; Length 644; 100.0%; Pred. No. 2e-164; Indels 0; Mismatches 0; Indels 0
                                                                                                                                                                                                                                                     Nguyen HQ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 644 BP; 144 A; 204 C; 173 G; 123 T; 0 other;
                                                                                                                                                                                                                                                     Silbiger SM, Elliot GS,
                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 1; Fig 1; 242pp; English.
                                                                                                                                    22-JUN-2000; 2000US-213125P.
02-FEB-2001; 2001US-266159P.
16-MAR-2001; 2001US-0810384.
                                                                                                   21-JUN-2001; 2001WO-US19861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity 100. Matches 644; Conservative
                                                                                                                                                                                                                                                                                      WPI; 2002-155217/20.
P-PSDB; AAE18120.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity
                                                                                                                                                                                                                                                     Yeh R,
                                                                                                                                                                                                                (AMGE-) AMGEN INC.
                             WO200208285-A2.
                                                                                                                                                           02-FEB-2001;
16-MAR-2001;
                                                                  31-JAN-2002
                                                                                                                                                                                                                                                     fedlock E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61
```

ij;

ద

õ 음 ò

움 ò 셤 à a ò g ò

ô

 \sim

```
å
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                      ö
coding sequences are useful for treating a pathological condition related to immune system dysfunction (e.g. psoriatic arthritis), infections (e.g. viral infections), weight disorders (e.g. obesity), neuronal dysfunction disorders (e.g. Alzheimer's disease), lung disorders (e.g. asthma), skin bone disease (e.g. eczema), kidney disorders (e.g. glomerulonephritis), bone disease (e.g. osteoporosis), vascular system disorders (e.g. ischaemia), eye disorders, reproductive disorders, tumours and inflammation. The present sequence is the coding sequence for IL-17E, a human IL-17 receptor like protein ligand.
                                                                                                                                                                                                                                                                                             240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         540
                                                                                                                                                                                                120
                                                                                                                                                                                                       61 GAAAATAAAATCAGGACTCCTAACCTGCTCCAGTCAGCCTGCTTCCACGAGGCCTGTCAG 120
                                                                                                                                                                                                                                      180
                                                                                                                                                                                                                                                         180
                                                                                                                                                                                                                                                                            240
                                                                                                                                                                                                                                                                                                                  300
                                                                                                                                                                                                                                                                                                                                                        360
                                                                                                                                                                                                                                                                                                                                                                 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                009
                                                                                                                                                                                                                                                                                                                                     300
                                                                                                                                                                                                                                                                                                                                                                                              420
                                                                                                                                                                                                                                                                                                                                                                                                                  420
                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                         9
                                                                                                                                                                             9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Interleukin; IL-17; CTLA-8; IL-170; IL-172; IL-173; IL-174; IL-176;
IL-177; IL-171; cell proliferation; cancer; ss.
                                                                                                                                                      GAAAATAAAATCAGGACTCCTAACCTGCTCCAGTCAGCCTGCTTCCACGAGGCCTGTCAG
                                                                                                                                                                                                                                    TCAGTGCCCCACTTGTGACTGAGTGTGCCAGCATGTACCAGGTGGTTGCATTCT
                                                                                                                                                                                                                                                                          181 TGGCAATGGTCATGGGAACCCACACCTACAGCCACTGGCCCAGCTGCTGCCCCAGCAAAG
                                                                                                                                                                                                                                                                                                                            241 GGCAGGACACCTCTGAGGAGCTGCTGAGGAGCACCTGTGCCTGTGCCTCCCCTAGAGC
                                                                                                                                                                                                                                                                                                                                                       CTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCCAGTGAAGATGGACCCCTCAACA
                                                                                                                                                                                                                                                                                                                                                                                            GCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTGAACCGGCTCCCCCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                              TGGACCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAGCGCAGGCTGTACCGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           241 GGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCTGTGCCTCCCCTAGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                  100.0%; Score 644; DB 24; Length 644; 100.0%; Pred. No. 2e-164;
                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CDNA encoding a human interleukin (IL) 174 polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTTCCTTAGCTTGTGTGTGTGGGGCCCCGTGTGATGGGCTAG 644
                                                                                               Sequence 644 BP; 144 A; 204 C; 173 G; 123 T; 0 other;
                                                                                                                                    .0
                                                                                                                                     0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CDNA; 504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                Ouery Match
Best Local Similarity 100.
Matches 644; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAA58986 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               07-NOV-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAA58986;
                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                                                                                                                                                                            361
                                                                                                                                                                                                                                                                                                                                                                                                                361
                                                                                                                                                                                                                                                                                                                                                                                                                                   421
                                                                                                                                                                                                                                                                                                                                                                                                                                                     421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAA58986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT
 828888888888888
                                                                                                                                                                          g,
                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                    a
a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       δ
                                                                                                                                                                                             ö
                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                          οy
                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                            õ
                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                   å
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      임
```

```
The present sequence encodes an interleukin-174 (IL-174) polypeptide. The polypeptide is an IL-17-11ke (CTIA-8 related) protein. It is a member of a new group of interleukins, IL-170 polypeptides. The members comprise IL-172, IL-173, IL-174, IL-176, IL-177, and IL-171. IL-170 protein can be used to treat abnormal protliferation e.g. cancer or degenerative conditions. Antibodies can be used in diagnostic methods to detect over production of IL-170 protein in cells or body
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New isolated polynucleotide encoding a mammalian Interleukin-17 like protein used to identify genes for homologous proteins -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      140 TGAGTGTGCAGTGCCCAGCATGTACCAGGTGGTTGCATTCTTGGCAATGGTCATGGGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 TGAGTGTGCAGTG-CCAGCATGTACCAGGTGCATTCTTGGCAATGCTCATGGGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCACACCTACAGCCACTGGCCCAGCTGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCTGCTGAGGTGGAGCACTGTGCCTGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCCAGAGTCCTGTAGGGCCAGTGAAGATGGACCCCTCAACAGCAGGGCCATCTCCCCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCTGTGCCCGCACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCCCGGGGCAACTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GAGATATGAGTTGGACAGAGACTTGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCTGTGCCCGCACTGCGTCAGCCTACAGACAGGCTCCCCACATGGACCCCCGGGGCAACTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 500 GGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGGCCATGCCATGCCGAGAAAGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 504 BP; 98 A; 165 C; 148 G; 93 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 493; DB 21;
Pred. No. 1.4e-123;
); Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Kastelein RA;
                                       Location/Qualifiers
19..504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Page 16; 111pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     76.68;
99.88;
                                                                                                                                                                                                                                                                                                                  10-JAN-2000; 2000WO-US00006.
                                                                         /*tag= a
/product=
19..66
/*tag= b
67..501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 99.8
Matches 504; Conservative
                                                                                                                                                                                        /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                        (SCHE ) SCHERING CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bazan JF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2000-466130/40.
P-PSDB; AAB07598.
                                                                                                                                                                                                                                  WO200042188-A2.
sapiens
                                                                                                                                                                                                                                                                                                                                                            11-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure;
                                                                                                                                                                                                                                                                          20-JUL-2000
                                                                                                                            sig_peptide
                                                                                                                                                                      nat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gorman DM,
Ношо
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    300
                                       Key
```

Ä

Indels

ö

Pred. No., 1.4e-123;

Mismatches

ö

99.88;

```
Conservative
Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sig_peptide
            504:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABA02393;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABA02393
                                                                               200
                                                                                                                                                                                                  180
                                                                                                                                                                                                                                                                       440
                                                                                                                                                                                                                                                                                             300
                                                                                                                                                                                                                                                                                                                    500
                                                                                                                                                                                                                                                                                                                                                                   260
                                   140
                                                                                                                              260
                                                                                                                                                                           320
            Matches
                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                        δy
                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                  δ
                                                                                                      g
                                                                                                                                                   ద
                                                                                                                                                                                                                          ŏ
                                                                                                                                                                                                                                               g
                                                        g
                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present sequence encodes an interleukin (IL)-174 polypeptide. It is a mammalian homologue of the cytokine designated CTLA-8 (also referred to as IL-17). The specification also describes homologues IL-171. IL-172, IL-173, IL-176, and IL-177. The DNA sequence encoding IL-171 is useful for identifying genes, mkNA and cDNA molecules which code for related or homologous proteins. The IL-171 protein, antibodies against IL-171, and compounds which have binding affinity to IL-171 are useful in treatment of conditions associated with abnormal physiology or development, including abnormal proliferation, e.g. cancerous conditions, or degenerative conditions. The IL-171 protein can be used in kits and assay methods for identifying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New DNA sequence encoding a mammalian homolog of CTLA-8, designated interleukin-171 (IL-171), useful for recombinant production of IL-171 which can be used for treating conditions associated with abnormal
                                                                                                                                                                                                                                                 Interleukin; IL-171; cytokine; CTLA-8; IL-17; IL-175; IL-173; IL-174; IL-176; IL-177; cell proliferation; cancer; ss.
  360 GGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGGCCATGCCATGGCGAGAAGGG 419
                                     Sequence 504 BP; 98 A; 165 C; 148 G; 93 T; 0 other;
                                                                                                                                                                                                                          CDNA encoding a human interleukin-174 polypeptide.
                                                                                                                                                                                                                                                                                                                                              "interleukin-174"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              compounds that selectively bind to IL-171.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Kastelein RA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; Page 19; 111pp; English
                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                        644
                                                                                                                                                         BP
                                                                                   480 TGTGCGGCCCCGTGTGATGGGCTAG
                                                                        TGTGCGGCCCCGTGTGATGGGCTAG
                                                                                                                                                       AAA59158 standard; cDNA; 504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                10-JAN-2000; 2000WO-US00005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      990S-0229402
                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                              /product=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   or development
                                                                                                                                                                                                                                                                                                                                      Ø
                                                                                                                                                                                                                                                                                                                                                                    /*tag=
67..501
/*tag=
                                                                                                                                                                                                                                                                                                                       ..504
                                                                                                                                                                                                                                                                                                                                    /*tag=
                                                                                                                                                                                                                                                                                                                                                            99..67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bazan JF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (SCHE ) SCHERING CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2000-476060/41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       P-PSDB; AAB07692
                                                                                                                                                                                                                                                                                                                                                                                                                   WO200042187-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11-JAN-1999;
                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                      07-NOV-2000
                                                                                                                                                                                                                                                                                                                                                            sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                          20-JUL-2000
                                                                                                                                                                                                                                                                                                                                                                                  mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gorman DM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   physiology
                                                                                                                                                                              AAA59158;
                                                  420
                                                                        620
                                                                                                                                                                                                                                                                                                              Key
                                                                                                                                RESULT 4
                                                                                                                                                                    g
                                                  셤
                                                                        ò
                                                                                              ద
                            ò
```

DB 21; Length 504;

Score 493;

76.68;

Query Match

```
Human; interleukin 174; IL-174; cytokine; Th2 response; innate immune response; inflammation; gut cell growth; extramedullary haematopoiesis; antibody response; granuloma formation; extramedullary haematopoiesis; antibody response; granuloma formation; rheumatorid arthritis; diabetes; psoriasis; infectious agent; inflammatory condition; Crohn's disease; ulcerative colitis; pancreatitis; hepatitis; allergy; Th2-mediated condition; gystemic anaphylactic response; skin hypersensitivity response; dermatitis; asthma; fibrosis; eosinophilic gastritis; immunomodulator; antilifammatory; antiarthritic; antidiabetic; antifungal; ds. ds. dermatological; neuroprotective; antiallergic; agonist; antagonist; ds.
                                                            499
                                                                                                                                                                                                                                                                                                                                                                                                                                                             CACCCACAAGGGCTACTGCCTGGAGCGCAGGCTGTACCGTGTTTCCTTAGCTTGTGTGT 619
                                                                                                                                              CTGTGTGCCCGCACTGCGTCAGCCTACAGACACCCCCCACATGGACCCCCGGGCCAACTC
                                                                                                                                                                                                                                                                                                                                                                                                              360 GGAGCTGCTCCACACACAGACTGTCTTCTACCGGCGCCATGCCATGGCGAGAAGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCTGTGCCCGCACTGCGTCAGCCTACAGACTCCCACATGGACCCCCGGGGGCAACTC
                                                                                                                                                                                                                                                                                                                                                                                               GGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGGCCATGCCATGCCGAGAAGGG
                                                                                                                               GCTGCTGAGGTGGAGCACTGTGCCTGTGCCTCCCCTAGAGCCTGCTAGGCCCCAACCGCCA
                                                                                                                                                                                             CCCAGAGICCTGIAGGGCCAGIGAAGAIGGACCCCTCAACAGCAGGGCCATCTCCCCCIG
                 1 TGAGTGTGCAGTG-CCAGCATGTACCAGGTGGTTGCATTCTTGGCAATGGT
TGAGTGTGCAGCCAGCATGTACCAGGTGGTTGCATTCTTGGCAATGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Mature human IL-174"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human interleukin 174 (IL-174)-encoding DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Human IL-174"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cocation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   620 TGTGCGGCCCCGTGTGATGGGCTAG 644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABA02393 standard; DNA; 504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /*tag= b
67..501
/*tag= c
/product= '
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /*tag= a
/product=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      19..66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mat_peptide
```

S

Page

419 619

```
Novel PRO polypeptides homologous to interleukin-17, useful for the diagnosis and treatment of immune related disease e.g. rheumatoid
     Human; Interleukin-17E ligand; IL-17E; agonist; antagonist; ss; PRO10272; DNA 147531-2821; systemic lupus erythematosus; rheumatoid arthritis; osteoarthritis; dlabetes mellitus; allergic disease; asthma; demyelinating disease; degenerative cartilaginous disorder; transplantation associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Filvaroff.E, Fong S, Goddard A, Godowski PJ,
L, Li H, Hillan KJ, Tumas D, Van Lookeren M,
CK, Williams PM, Wood WI, Yansura DG;
                                                                                                                                                                                                                                                                                             Human cDNA encoding Interleukin 17E ligand, IL-17E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /*tag= b
358..788
/*tag= c
/label= Mature_IL_17E
                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                                      644
                                                                                                                     BP.
                                                                                                      620 TGTGCGCCCCGTGTGATGGGCTAG
                                                                                                                                                                                                        AAS09511 standard; cDNA; 1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20-DEC-2000; 2000WO-US34956
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2000US-0253646
2000WO-US32678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20000S-0175481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               :000WO-US04341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2000US-0644848
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000WO-US23328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2000WO-US30873
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2000WO-US05841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2000WO-US07532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2000WO-US15264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2000US-0242837
                                                                                                                                                                                                                                                                                                                                                                                                                                                              /*tag= a
/product=
259..357
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2000US-0191007
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2000US-0213087
                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99WO-US31274
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2001-451708/48.
P-PSDB; AAU04952.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200146420-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gurney AL, L
Watanabe CK,
                                                                                                                                                                                                                                                                                                                                                                                                          sapiens
                                                                                                                                                                                                                                                                24-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11-JAN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   02-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  22-Aug-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24 - AUG - 2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              34-OCT-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        31-DEC-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            02-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                30-DEC-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28-NOV-2000
                                                                                                                                                                                                                                    AAS09511;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Chen J,
                                               960
                                                                                                                                                                                                                                                                                                                                                                                                          Ното
                                                                                                                                                                            RESULT 6
                                                                                                                                                                                                                                                                                                                                                                                                                                       Key
                                                                                                                                                                                           AAS09511
                                              ò
                                                                          g
                                                                                                      ò
                                                                                                                                                                                                                       mammal by the administration of an agonist or antagonist of the cytokine mammal by the administration of an agonist or antagonist of the cytokine interleukin 174 (IL-174). Administration of an IL-174 agonist directs the interleukin 174 (IL-174). Administration of an IL-174 agonist directs the immune response towards a Th2 response, stimulates an innate immune response towards the inflammatory response from epithelial or fibroblast cells, induces gut cell growth, promotes extramedullary haematopoiesis, or augments an antibody response in serum and faecal material, while administration of an IL-174 antagonist directs the immune response away from a Th2 type response, and prevents inflammation or granuloma formation. IL-174 agonists may be used to treat autoimmune conditions (particularly multiple sclerosis, systemic lupus conditions agent, or inflammatory conditions such as Crohn's disease, ulcerative collis, pancreatitis, or hepatitis. IL-174 autagonists may be used to treat inflammatory, allergic or Th2-mediated conditions (e.g., systemic anaphylactic response, skin hypersensitivity response, dermatitis, asthma, fibrosis, or coshipphilic gastritis). The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         140 TGAGTGTGCAGTGCCCAGCATGTACCAGGTGGTTGCATTCTTGGCAATGGTCATGGGAAC 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            60 ccacaccracacccacreeccascrecrecccascaaasescaacaccrecreasea 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCTGTGCCCGCACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCCCGGGGCAACTC 499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         500 GGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGGCCATGCCATGGCGAGAAGGG 559
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               300 cergrececeaerecereaeceraceaeaeaeaececeaeaececeaeaeaece 359
                                                                                                                                                                                                                                                   Ç
                                                                                                                                                                                                                             Administering an interleukin 174 agonist or antagonist to a mammal regulates various immune and inflammatory responses and is useful treat for example autoimmune diseases, allergies or response to an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCTGCTGAGGTGGAGCACTGTGCCTGTGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCCAGAGTCCTGTAGGGCCAGTGAAGATGGACCCCTCAACAGCAGGGCCATCTCCCCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               180 CCCAGAGTCCTGTAGGGCCAGTGAAGATGGACCCCTCAACAGCAGGGCCATCTCCCCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cch 76.6%; Score 493; DB 24; Length 504; 11 Similarity 99.8%; Pred. No. 1.4e-123; 504; Conservative 0; Mismatches 0; Indels 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               present sequence represents DNA encoding human IL-174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 504 BP; 98 A; 165 C; 148 G; 93 T; 0 other;
                                                                                                                                                                                                                                                                                                  Disclosure; Page 26-27; 29pp; English.
                                                                                                                                                           Rennick DM;
                                                                       17-APR-2001; 2001WO-US12493.
                                                                                                 18-APR-2000; 2000US-198488P
                                                                                                                                                           Zurawski SM,
                                                                                                                              (SCHE ) SCHERING CORP.
                                                                                                                                                                                     WPI; 2002-034343/04.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity
                                                                                                                                                                                                   P-PSDB; AAM52691
              WO200179288-A2.
                                           25-OCT-2001.
                                                                                                                                                           Hurst SD,
                                                                                                                                                                                                                                                                         infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    440
g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ģ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
```

disease

Grimaldi CJ;

Vandlen RL;

```
(GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                        03-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          24-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                05-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tumas D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Fong S,
 The sequence (DNA 147531-2821) encodes a PRO polypeptide (PRO10222)
which is the human Interleukin 17E ligand, IL-17E. A composition
containing ant-fagonists to the PRO polypeptides or individual components
are useful for treating a mammal with an immune related disease, e.g.
uvenile chronic arthritis, a spondyloarthritis, osteoarthritis,
idiopathic inflammatory myopathy, Sjoren's syndrome, systemic sclerosis, an
idiopathic inflammatory myopathy, Sjoren's syndrome, systemic
vascultis, sarcoidosis, autoimmune heamolytic anaemia, autoimmune
thrombocytopenia, thyroiditis, diabetes mellitus, immune-mediated skin
disease, a demyellnating disease, an autoimmune or immune-mediated skin
disease, contact dermatitis, an allergic disease e.g. food
hypersensitivity, asthma, a transplantation associated disease, or a
chronic inflammatory demyelinating polyneuropathy. Treating a
degenerative cartilaginous disorder comprises administering a PRO1031 or
PRO1122 Polypeptide agonist, or antagonist to the mammal. Numerous
examples of the diseases and disorders are given in the specification.
                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                 284
                                                                                                                                                                                                                                                                                                                                                             524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           644
                                                                                                                                                                                                                                                                                                      CAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACCTACAGCCACGTGGCCCAGC 224
                                                                                                                                                                                                                                                                                                                                                                                              GTGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCAGTGAA 344
                                                                                                                                                                                                                                                                                                                                                                                                                                           GATGGACCCCTCAACAGCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTG 404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCTA 464
                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTCTTCTACCGGCGGCCATGCCATGGCGAGAAGGGCACCCCACAAGGGCTACTGCCTGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CGCAGGCTGTACCGTGTTTCCTTAGCTTGTGTGTGTGTGCGGCCCCCGTGTGATGGGCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAGACAGGCTCCCACATGGACCCCCGGGGCCAACTCGGAGCTGCTCTACCACCAGACT
                                                                                                                                                                                                                                                                                                                                                   TGCTGCCCCAGCAAAGGCCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCT
                                                                                                                                                                                                                                                         Score 478.4; DB 22; Length 1320;
Pred. No. 1.8e-119;
0; Mismatches 1; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Native sequence of PRO10272 cDNA, clone DNA147531-2821.
                                                                                                                                                                                                                                    Sequence 1320 BP; 280 A; 353 C; 384 G; 303 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ВР
                      Claim 1; Fig 5; 188pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAC85969 standard; cDNA; 1320
                                                                                                                                                                                                                                                           74.3%;
99.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                Conservative
arthritis and diabetes
                                                                                                                                                                                                                                                                     Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22-AUG-2001
                                                                                                                                                                                                                                                                                Matches 479;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAC85969;
                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             553
                                                                                                                                                                                                                                                                                                      165
                                                                                                                                                                                                                                                                                                                                                   225
                                                                                                                                                                                                                                                                                                                                                                                              285
                                                                                                                                                                                                                                                                                                                                                                                                                    433
                                                                                                                                                                                                                                                                                                                                                                                                                                           345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            585
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAC85969

ID AAC8

XX AC8

XX AC8

XX DT 22-A

DE Nati

XX PRO;

KW PRO;

KW PRO;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 7
a
                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ם
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <u>අ</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                       à
```

systemic lupus erythematosus; rheumatoid arthritis; osteoarthritis; juvenile chronic arthritis; spondyloarthropathy; systemic sclerosis; juvenile chronic arthritis; spondyloarthropathy; systemic sclerosis; systemic vasculitis; sarcoidosis; autoimmune haemolytic anaemia; asthma: systemic vasculitis; sarcoidosis; autoimmune haemolytic anaemia; asthma: immune mediated renal disease; demyelination; central nervous system; peripheral nervous system; idiopathic demyelinating polyneuropathy; chronic active hepatitis; primary bilary cirrhosis; allergic rhinitis; chronic active hepatitis; primary bilary cirrhosis; allergic rhinitis; inflammatory bowel disease; dluten sensitive enteropathy; uricaria; Whipple's disease; idiopathic pulmonary fibrosis; contact dermatitis; peripheral systemic pulmonary fibrosis; contact dermatitis; peripheral sitemic pulmonary fibrosis; contact dermatitis; praff. The statement of the systemic pulmonary fibrosis; contact dermatitis; praff. The statement of th polymorphonuclear neutrophil; PMN; antibody; immune-related disorder; /*tag= a /product= "PRO10272 polypeptide". 259..354 /*tag= b 355..769 /*tag= c graft rejection; graft-versus-host disease; ss Location/Qualifiers 259..792 2000US-0177118 2000WO-US04342 10-NOV-2000; 2000WO-US30873 99US-0172059 2000US-0175481 WO200140465-A2 11-JAN-2000; 20-JAN-2000; 18-FEB-2000; Homo sapiens. 30-NOV-1999; 09-DEC-1999; sig_peptide mat_peptide 07-JUN-2001 23-DEC-1999

Hillan KJ; Gurney AL, Grimaldi CJ, Watanabe CK, Wood WI, Zhang Z; Godowski PJ, Goddard A,

2000US-0187202 2000US-0209832 2000WO-US23328 2000WO-US14941

WPI; 2001-381384/40. P-PSDB; AAB47299.

PRO polypeptide useful for treat or diagnose an immune-related e.g. arthritis, asthma, allergy, diabetes or psoriasis Isolated PRO p disorder e.g.

Claim 2; Fig 17; 124pp; English.

autoimmune haemolytic anaemia, autoimmune thrombocytopaenia, thyroiditis, diabetes mellitus; immune-mediated renal disease, a demyelinating disease of the central or peripheral nervous system, idiopathic demyelinating polyneuropathy, Guillain-Barre syndrome, a chronic inflammatory demyelinating polyneuropathy, a hepatobiliary disease, The sequences given in AAC85961-69 encode PRO polypeptides. PRO1081, PRO1274 and PRO10272 stimulate the proliferation of T-lymphocytes and PRO1059, PRO1401 and PRO10268 inhibit the proliferation of T-lymphocytes. PRO1754 and PRO91028 inhibit the proliferation of mononuclear cells, eosinophils or polymorphonuclear neutrophils (PMN) into them, are used to treat an immune-related disorder in bind to them, are used to treat an immune-related disorder in theumatoid arthritis, osteoarthritis, juvenile chronic arthritis, a spondyloarthropathy, systemic sclerosis, an idiopathic inflammatory myopathy, Sjogren's syndrome, systemic vasculitis, sarcoidosis,

PRO; PRO1081; PRO1274; PRO10272; proliferation; T-lymphocyte; PRO1199; PRO1556; PRO4401; PRO10268; inhibition; stimulation; infiltration; mononuclear cell; eosinophil; erythema multiforme;

```
ó;
infectious or autoimmune chronic active hepatitis, primary billary clirhosis, granulomatous hepatitis, sclerosing cholangitis, inflammatory bowel disease, gluten-sensitive enteropathy, Whipple's disease, an autoimmune or immune-mediated skin disease, abullous skin allergic disease, asthem, allergic rhinitis, atopic dermatitis, food hypersensitivity, urticaria, an immunologic disease of the lung, eosinophilic pneumonia, idiopathic pulmonary fibrosis, hypersensitivity premonia, idiopathic pulmonary fibrosis, hypersensitivity premonia, idiopathic pulmonary fibrosis, hypersensitivity premonia, idiopathic pulmonary fibrosis, hypersensitivity premonial.
                                                                                                                                                                                                              284
                                                                                                                                                                                                     224
                                                                                                                                                                                                                                                                           432
                                                                                                                                                                                                                                                                                                   344
                                                                                                                                                                                                                                                                                                                         492
                                                                                                                                                                                                                                                                                                                                                404
                                                                                                                                                                                                                                                                                                                                                                      552
                                                                                                                                                                                                                                                                                                                                                                                            464
                                                                                                                                                                                                                                                                                                                                                                                                                    612
                                                                                                                                                                                                                                                                                                                                                                                                                                          524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               732
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       644
                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                              165 CAGGIGGITGCAITCTIGGCAATGGICAIGGGAACCCACACACTACAGCCACTGGCCCAGC
                                                                                                                                                                                                                                                                                                                                                           225 TGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCCT
                                                                                                                                                                                                                                                             AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA
                                                                                                                                                                                                                                                                                                                                                                                                       GTCTTCTACCGGCGCCATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 345 GATGGACCCCTCAACAGCAGGGCCATCTCCCCCTGGAGATATGAGTTGGGACAGAGACTTG
                                                                                                                                                    Score 478.4; DB 22; Length 1320;
Pred. No. 1.8e-119;
0; Mismatches 1; Indels 0;
                                                                                                                                                                            1; Indels
                                                                                                                            Sequence 1320 BP; 280 A; 353 C; 384 G; 303 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ВР
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAF92135 standard; cDNA; 1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRO protein; mapping;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     99WO-US20111.
99WO-US21090.
99US-0169495.
                                                                                                                                                     74.38;
99.88;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000WO-US23328
                                                                                                        graft-versus-host disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                Best Local Similarity 99.8
Matches 479; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human PRO10272 cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200116318-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-SEP-1999;
15-SEP-1999;
07-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       08-MAR-2001
                                                                                                                                                     Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAF92135;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human;
                                                                                                                                                                                                                                                                                                                                                                                                                 553
                                                                                                                                                                                                                                                                                                                                                                                          405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAF92135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT
8×8888888888×8
                                                                                                                                                                                                                                                                        셤.
                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                   à
                                                                                                                                                                                                                        ģ
                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                            õ
                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                             쉽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          q
```

```
.
.
                                                                                                                                                                                                                                                                                                                                                                      ဌ
                                                                                                                                                                                                                                                                                                                               The present sequence is the coding sequence for a human PRO polypeptide
                                                                                                                                                                                                                                                                                                                                          (secreted and transmembrane). The PRO protein, and PRO agonists, PRO anti-profiles are useful for preparation of a anti-profiles are useful for preparation of a medicament useful in the treatment of a condition which is responsive the PRO protein, agonists, antagonists or anti-PRO antibodies. The PRO protein may also be employed as molecular weight markers for protein electrophoresis. The PRO coding sequence has applications in molecular biology, including use as hybridisation probes, and in chromosome and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        732
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACATACAGCCACTGGCCCAGC 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           225 TGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCACCAGAGTCCTGTAGGGCCAGTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GATGGACCCCTCAACAGGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAGACAGGCTCCCACATGGACCCCCGGGGCCAACTCGGAGCTGCTCTACCACAACCAGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTCTTCTACCGGCGGCCATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CGCAGGCTGTACCGTGTTTCCTTAGCTTGTGTGTGTGCGGCCCCGTGTGATGGGCTAG
                                                                                                                                                                                                                                                Eighty four nucleic acids encoding PRO polypeptides, useful in molecular biology, including use as hybridization probes, and in
                                                                                                                                                                      Godowski PJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 478.4; DB 22; Length 1320;
Pred. No. 1.8e-119;
0; Mismatches 1; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 1320 BP; 280 A; 353 C; 384 G; 303 T; 0 other;
                                                                                                                                                                     Goddard A,
Wood WI;
                                                                                                                                                                     CK,
                                                                                                                                                                      Gerritsen
                                                                                                                                                                                    Watanabe
                                                                                                                                                                                                                                                                                                   Claim 2; Fig 155; 278pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     74.3%;
99.8%;
                                                                                                                                                                                                                                                                            chromosome and gene mapping.
                         2000WO-US04341
                                                                           2000US-0187202.
2000US-0199397.
                                                 2000WO-US04414
2000WO-US05601
                                                                                                      2000WO-US14042
                                                                                                                 2000US-0209832
                                                                                                                                                                     E,
AL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                           (GETH ) GENENTECH INC
                                                                                                                                                                     Filvaroff
                                                                                                                                                                                 Grimaldi CJ, Gurney
                                                                                                                                                                                                           WPI; 2001-183260/18.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity
Matches 479; Conserv
                                                                                                                                                                                                                        P-PSDB; AAB87603
                                                                                                    22-MAY-2000;
05-JUN-2000;
            11-JAN-2000;
18-FEB-2000;
                                       18-FEB-2000;
                                                 22-FEB-2000;
01-MAR-2000;
                                                                           03-MAR-2000;
25-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                    gene mapping
                                                                                                                                                                     Eaton DL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 585
à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               òγ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ġ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
```

```
Mouse; interleukin-17 like; IL-17L; immune system dysfunction; diabetes; cytostatic; multiple sclerosis; rheumatoid arthritis; therapy; lupus; inflammatory bowel disease; neuronal dysfunction; transplant rejection; autoimmune disorder; lung; skin; kidney; bone; eye; vascular system; infection; hepatitis; obesity; anorexia; cachexia; glomerulonephritis; eystic fibrosis; Alzheimer's disease; merkinson's disease; emphysema; eczema; sepsis; psoriasis; wound healing; osteoporosis; Paget's disease; epilepsy; atherosclerosis; heart failure; angiogenesis; endometriosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      leukaemia; retinal neuropathy; infertility; miscarriage; inflammation;
                                                                 562
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 622
                                                                                                                                             383
CTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCTGT 203
                                                                                                                                                                                                                                                                                                                                                                                                      324 CCACAGGTTGGACAGAGACTTGAACCGGCTCCCCCAGGACCTGTACCACGCCGGTTGCCT
                                                                                                                                                                                                                                                                                                                                                                                 GCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGGCCATGCCATGGCGAGAAGGGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GCCTCCCCTAGAGCCTGCTAGGCCCCAACCGCCACCCAGAGTCCTGTAGGGCCCAGTGAAGA
                                                                                                                                                                                                                                                                                                GIGCCCGCACIGCGTCAGCCIACAGACAGGCICCCACAIGGACCCCCGGGGCAACICGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -----GITGGACAGACTTGAACCGGCTCCCCAGGACCTGTACCAGGCCCGTTGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /product= "Mature IL-17L protein"
                                                                                                                                347 TGGACCCCTCAACAGCAGGCCATCTCCCCCTGGAGATATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mouse Interleukin-17 like (IL-17L) cDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "Mouse IL-17L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAD28772 standard; cDNA; 1013 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21-JUN-2001; 2001WO-US19861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2000US-213125P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            02-FEB-2001; 2001US-266159P.
16-MAR-2001; 2001US-0810384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1..53
/*tag= b
54..507
/*tag= c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       07-MAY-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /product-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200208285-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  31-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      623 G 623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      564 G 564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAD28772;
        144
                                                                                                                                                                                                                  389
                                                                                                                                                                                                                                                                                                  443
                                                                                                                                                                                                                                                                                                                                                                                   503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAD2877
                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to isolated polynucleotide (I) and probes, polypeptide (II) sequences. (I) is useful as hybridisation probes, colymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The cand gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags of to independ or man activity of (II) or to treat disease states involving to restore normal activity of (II) or to treat disease states involving applyament. (II) and its sum colecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (II) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in clasping the for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. AAS64197-AAS94564 represent novel human call and activity of diagnostic coding sequences of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             printed
from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTGCCCCAGCAAAGGCAGGACACTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCTGT 286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            167 GGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACCTACAGCCACTGGCCCAGCTG 226
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess
                                                                                                                                                                                                                                        forensic;
                                                                                                                                                                                                                                      1; chromosome mapping; gene mapping; gene therapy; forensic; supplement; medical imaging; diagnostic; genetic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     64.9%; Score 418.2; DB 23; Length 1355; 94.4%; Pred. No. 3.5e-103;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Note: The sequence data for this patent did not appear in the specification, but was obtained in electronic format directly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1355 BP; 277 A; 421 C; 383 G; 274 T; 0 other;
                                                                                                                                                                                            DNA encoding novel human diagnostic protein #29363.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 1; SEQ ID No 29363; 103pp; English.
                                                                     BP.
                                                                   AAS93559 standard; cDNA; 1355
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tang YT;
                                                                                                                                                                                                                                                                                                                                                                                                                              30-MAR-2001; 2001WO-US08631
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2000US-0540217
2000US-0649167
                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches 454; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2001-639362/73.
P-PSDB; ABG29372.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Drmanac RT, Liu C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (HYSE-) HYSEQ INC.
                                                                                                                                                                                                                                                                                                                                            WO200175067-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     31-MAR-2000;
23-AUG-2000;
                                                                                                                                                                                                                                                                                                     Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  biodiversity
                                                                                                                                                     13-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                     11-OCT-2001.
                                                                                                            AAS93559;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Local
                                                                                                                                                                                                                                                           food
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              227
                            RESULT 9
                                               AAS93559
```

ð g ò

ŝ

Jing

Nguyen HQ,

```
The invention relates to nucleic acid molecules encoding Interleukin 17 (IL-17)-like polypeptides. IL-17 DNA can be used to modulate the levels of IL-17 protein in an animal. The IL-17 protein is useful for treating, preventing or ameliorating a such as immune system dysfunction (rheumatoid arthritis, osteoarthritis, inflammatory joint disease); autoimnume (multiple sclerosis, lupus, diabetes, inflammatory bowel disease, transplant rejection, graft vs. host disease); infections (HIV, (hepatitis, bacterial); weight disorders (obesity, anorexia, cachexia, sepsis); neuronal dysfunction (Alzheimer's, Parkinson's disease); lung (acute respiratory distress syndrome, cystic fibrosis, emphysema); skin (psoriasis, eczema, wound healing); kidney (glomerulonephritis); bone (osteoporosis, Paget's disease, hypercalcaemia) vascular system (epilepsy atherosclerosis, heart failure, anglogenesis); tumours, cancers (lymphoma heart sandy and the second second
                                                                                                                                                                                                                                                                                                                        Nucleic acid molecules encoding Interleukin 17 (IL-17) - like polypeptides useful in the treatment, prevention and diagnosis of diseases e.g. cancer -
                                                                                                                          Elliot GS,
                                                                                                                          Silbiger SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 1; Fig 2; 242pp; English.
                                                                                                                                                                                                  WPI; 2002-155217/20.
P-PSDB; AAE18121.
                                                                                                                      E, Yeh R,
                                      (AMGE-) AMGEN INC.
                                                                                                                      Medlock
```

Sequence 1013 BP; 227 A; 297 C; 268 G; 221 T; 0 other;

teukaemia); reproductive (infertility, miscarriage, endometriosis), eye (blindness, retinal neuropathy) and treatment of diseases involving inflammation. The present sequence is mouse Interleukin-17 like (IL-17L)

```
1;
                                                                                                     254
                                                                                                                 61 ATCCAGGAGGCTGCAGTCACTTGCCCAGCTGCTGCCCCAGCAAAAACCCCCCG 120
                                                                                                                                                        314
                                                                                                                                                                    420
                                                                                                                                                                                                                                                                                                                                                                                                                                              480
                             Gaps
                                                                                                                                                                                                                                                            434
                                                                                                                                                                                                                                                                          494
                                                               213 ------CACTGGCCCAGCTGCTGCCCAGCAAAGGGCAGGACACCTCT
                                                                                                                                                     255 GAGGAGCTGCTGAGGTGGAGCACTGTGCCTGTGCCTCCCCTAGAGCCTGCTAGGCCCAAC
                                                                                                                                                                                                       315 CGCCACCCAGGAGTCCTGTAGGGCCAGTGAAGATGGACCCCTCAACAGCAGGGCCATCTCC
                                                                                                                                                                                                                                                        375 CCCTGGAGATATGAGTTGGACAGAGACTTGAACCGGCTCCCCCAGGACCTGTACCACGCC
                                                                                                                                                                                                                                                                                                            435 CGTTGCCTGTGCCCGCACTGCGTCAGCCTACAGGCTCCCACATGGACCCCCGGGGC
                                                                                                                                                                                                                                                                                                                                                                AACTCGGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGGCCATGCCATGGCGAG
                                                                                                                                                                                                                                                                                                                                                                                                                  555 AAGGGCACCCACAAGGGCTACTGCCTGGAGCGCAGGCTGTACCGTGTTTCCTTAGCTTGT
                                                  159 ATGTACCAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACCTACAGC----
Score 336.8; DB 24; Length 1013;
Pred. No. 3.4e-81;
0; Mismatches 72; Indels 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    615 GTGTGTGCGGCCCCGTGTGATGGGCTAG
 Query Match 52.3%;
Best Local Similarity 81.2%;
Matches 414; Conservative
                                                                                                                                                                                                                                                                                                                                                                495
                                                                                                                                                                                                                                                                                                                                     301
                                                                          셤
                                                                                                   ò
                                                                                                                         g
                                                                                                                                                     ŏ,
                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                       g
                                                  à
                                                                                                                                                                                                      õ
                                                                                                                                                                                                                               ď
                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
```

```
inflammatory bowel disease; neuronal dysfunction; transplant rejection, autoimmune disorder; lung; skin; kidney; bone; eye; vascular system; infection; hepatitis; obesity; anorexia; cachexia; glomerulonephritis; cystic fibrosis; Alzheimer's disease; Parkinson's disease; emphysema; eczema; sepsis; psorlasis; wound healing; osteoporosis; paget's disease; epilepsy; atherosclerosis; heart failure; angiogenesis; endometriosis;
                                                                                                             dysfunction; diabetes;
                                                                                                                                                                                                    leukaemia; retinal neuropathy; infertility; miscarriage; inflammation;
                                                                                                                                                                                                                                                                                          /product= "Mouse non-secreted form of IL-17L protein"
                                                                                                                                                                                                                                                                                                                                                                                                                                                      ŝ
                                                                                                           Mouse; interleukin-17 like; IL-17L; immune system dysfunction; cytostatic; multiple sclerosis; rheumatoid arthritis; therapy;
                                                                                       Mouse non-secreted form of Interleukin-17 like (IL-17L) cDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Elliot GS, Nguyen HQ,
                                                                                                                                                                                                                                                         Location/Qualiflers
511..993
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Silbiger SM,
                    AAD28773 standard; cDNA; 1496
                                                                                                                                                                                                                                                                                                                                                                                 22-JUN-2000; 2000US-213125P. 02-FEB-2001; 2001US-266159P. 16-MAR-2001; 2001US-0810384.
                                                                                                                                                                                                                                                                                                                                                            21-JUN-2001; 2001WO-US19861.
                                                               07-MAY-2002 (first entry)
                                                                                                                                                                                                                                                                                  /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2002-155217/20
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Yeh R,
                                                                                                                                                                                                                                                                                                                                                                                                                               (AMGE-) AMGEN INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     P-PSDB; AAE18122
                                                                                                                                                                                                                                                                                                                WO200208285-A2
                                                                                                                                                                                                                                     Mus musculus
                                                                                                                                                                                                                                                                                                                                      31-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Medlock E,
                                                                                                                                                                                                                 cancer; ss
                                          AAD28773;
RESULT 11
           AAD28773
```

The invention relates to nucleic acid molecules encoding Interleukin 17 (IL-17)-like polypeptides. IL-17 DNA can be used to modulate the levels of IL-17 protein in an animal. The IL-17 protein is useful for treating, preventing or ameliorating a disease, such as immune system dysfunction (rheumatoid arthritis, osteoarthritis, inflammatory joint disease); autoimmune (multiple sclerosis, lupus, diabetes, inflammatory bowel disease, transplant rejection, graft vs. host disease); infections (HIV, hepatitis, bacterial); weight disorders (obesity, anorexia, cachexia, sepsis); neuronal dysfunction (Alzheimer's, Parkinson's disease); lung acute respiratory distress syndrome, cystic fibrosis; emphysema); skin (psoriasis, eczema, wound healing); kidney (glomerulonephritis); bone (osteoporosis, Paget's disease, hypercalcaemia) vascular system (epilepsy atherosclerosis, heart failure, angiogenesis); tumours, cancers (lymphoma leukaemia); reproductive (infertility, miscarriage, endometriosis), eye (blindness, retinal neuropathy) and treatment of diseases involving inflammation. The present sequence is non-secreted form of mouse Interleukin-17 like (IL-17L) cDNA

Nucleic acid molecules encoding Interleukin 17 (IL-17) - like polypeptides useful in the treatment, prevention and diagnosis of diseases e.g. cancer -

Claim 1; Fig 2; 242pp; English.

Sequence 1496 BP; 347 A; 417 C; 410 G; 322 T; 0 other;

```
The present sequence encodes an interleukin-174 (IL-174) polypeptide. The polypeptide is an IL-17-like (CTLA-8 related) protein. It is a member of a new group of interleukins, IL-170 polypeptides. The members comprise IL-172, IL-173, IL-177, and IL-177, and IL-171. IL-170 protein can be used to treat abnormal proliferation e.g. cancer or degenerative conditions. Antibodies can be used in diagnostic methods to detect over production of IL-170 protein in cells or body
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61 ATCCAGGAGGCTGCAGTGCCCAGTGCCCAGCAAAAAGCCCCCC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  361 AACTCCGTCCCACTTTACCACAACCAGACGGTCTTCTACCGGCGGCCATGCCATGGTGAG 420
                                                                                                                                                                                                                                                                                                                 159 ATGTACCAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACCTACAGG----- 212
                                                                                                                                                                                                                                                                                                                                                                                                                GAGGAGCTGCTGAGGTGGAGCACTGTGCCTGTGCCTCCCCTAGAGCCTGCTAGGCCCAAC 314
                                                                    mammalian Interleukin-17 like
                                                                                                                                                                                                                                                                                                                              1 ATGTACCAGGCTGTTGCATTCTTGGCAATGATCGTGGGAACCCACACACGTCAGCTTGCGG
                                                                                                                                                                                                                                                                                                                                                                                                                             ----CACTGGCCCAGCTGCTGCCCCAGCAAAGGGCAGGACACCTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                315 CGCCACCCAGAGTCCTGTAGGGCCAGTGAAGATGGACCCCTCAACAGCAGGGCCATCTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCCTGGAGATATGAGTTGGACAGACTTGAACCGGCTCCCCCAGGACCTGTACCACGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CGTTGCCTGTGCCCGCACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCCCGGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AACTCGGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGGCCATGCCATGGGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAGGGCACCCACAAGGGCTACTGCCTGGAGCGCAGGCTGTACCGTGTTTCCTTAGCTTGT
                                                                     polynucleotide encoding a mammalian Interl
to identify genes for homologous proteins
                                                                                                                                                                                                                                         Sequence 985 BP; 199 A; 296 C; 268 G; 222 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cDNA encoding a murine interleukin-174 polypeptide
                                                                                                                                                                                                                                                                DB 21;
                                                                                                                                                                                                                                                                 Score 335.2; DB 21;
Pred. No. 9.1e-81;
0; Mismatches 73;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         615 GIGIGIGIGGGCCCCGIGIGAIGGCTAG 644
           RA;
                                                                                                         Disclosure; Page 18; 111pp; English.
            Kastelein
                                                                                                                                                                                                                                                                                        0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                985
                                                                                                                                                                                                                                                                 Query Match 52.0%;
Best Local Similarity 81.0%;
Matches 413; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CDNA;
           Bazan JF,
                                  WPI; 2000-466130/40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                standard;
                                                P-PSDB; AAB07600
                                                                      New isolated
protein used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              07-NOV-2000
            Ŭ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAA59160;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAA59160
             Gorman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              495
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAA59160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ୍ପ
                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                        QQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 XEXEXEX
  ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                         ÷
                                                                                                                                                                    638
                                                                                                                                                                                                                                                                                                                                                                                          589
                                                                      518
                                                                                             229
                                                                                                                     578
                                                                                                                                             289
                                                                                                                                                                                                                   698
                                                                                                                                                                                                                                           409
                                                                                                                                                                                                                                                                  758
                                                                                                                                                                                                                                                                                          469
                                                                                                                                                                                                                                                                                                                  818
                                                                                                                                                                                                                                                                                                                                          529
                                                                                                                                                                                                                                                                                                                                                                  878
                                                                                                                                                                                                                                                                                                                                                                                                                 938
                                                TGTGACTGAGTGTGCCAGTGCCCAGCATGTACCAGGTGGTTGCATTCTTGGCAATGGTCAT 193
                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IL-173; IL-174; IL-176;
SS.
                                                            699 CCCCTCAACAGCAGGGCCATCTCTTCTTGGAGCTATGAGTTGGACAGGGACTTGAATCG
                                                                                                                                                                                                                                                                                                        CACTGGCCCAGCTGCTG
                                                                                                                                                                   579 CCCCAGCAAAGAGCAAGAACCCCCGGAGGAGTGGCTGAAGTGGAGCTCTGCATCTGTGTC
                                                                                                                                                                                                                                           350 ACCCCTCAACAGCAGGGCCATCTCCCCTGGAGATATGAGTTGGACAGAGACTTGAACCG
                                                                                                                                                                                                                                                                                           GCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTACAGAC
                                                                                                                                                                                                                                                                                                                                         AGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACTGTCTT
                                                                                                                                                                                                                                                                                                                                                        CTACCGGCGCCCATGCCATGCCGAGAAGGCCACCCACAAGGGCTACTGCCTGGAGCGCAG
                                                                                                                                             CCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCTGTGCC
                                                                                                                                                                                           290 TCCCCTAGAGCCTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCAGTGAAGATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                         GCTGTACCGTGTTTCCTTAGCTTGTGTGTGTGCGGCCCCGTGTGATGGGCTAG 644
                                                                                                                                                                                                                                                                                                                                                                                                                                                     24;
 DB 24; Length 1496;
                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cDNA encoding a murine interleukin (IL) 174 polypeptide
                        88;
          5.7e-81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Interleukin; IL-17; CTLA-8; IL-170; IL-172;
IL-177; IL-171; cell proliferation; cancer;
                        Mismatches
Score 336.2;
Pred. No. 5.7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CDNA; 985
52.2%;
79.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10-JAN-2000; 2000WO-US00006
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99US-0228822
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1..48
/*tag=
49..507
/*tag=
                                                                                             GGGAACCCACACCTACAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1..510
/*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SCHE ) SCHERING CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAA58988 standard;
           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200042188-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           07-NOV-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-JUL-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAA58988
 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mus sp
                                                                     459
                                                                                                                    519
                                                                                                                                                                                                                                                                                                                  759
                                                                                                                                                                                                                                                                                                                                          470
                                                                                                                                                                                                                                                                                                                                                                  819
                                                                                                                                                                                                                                                                                                                                                                                          530
                                                                                                                                                                                                                                                                                                                                                                                                                                         590
                      Matches
                                              134
                                                                                             194
                                                                                                                                            230
                                                                                                                                                                                                                                                                                          410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                939
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAA58988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                    g
                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                 q
                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                               ద
                                                ŏ
                                                                     셤
                                                                                                                                             ò
                                                                                                                                                                   P
                                                                                                                                                                                           δò
                                                                                                                                                                                                                  d
                                                                                                                                                                                                                                          ð
```

434

360

554

614

494

ij

Gaps

24;

Length Indels 254

```
Mouse; murine; interleukin 174; IL-174; cytokine; Th2 response; innate immune response; inflammation; gut cell growth; extramedulary hemantopoiesis; antibody response; granuloma formation; autoimmune condition; multiple sclerosis; systemic lupus erythematosus; rheumatoid arthritis; diabetes; psoriasis; infectious agent; inflammatory condition; Crohn's disease; ulcerative collits; pancreatitis; hepatitis; allergy; Th2-mediated condition; systemic anaphylactic response; skin hypersensitivity response; skin edmattis; asthmma; fibrosis; eosinophilac; antidiabetic; antidiabetic; antidiabetic; antidiabetic; antidiapetic; antidiabetic; antidiapetic dermatological; neuroprotective; antiallergic; agonist; antagonist; ds.
                                                          CGATGCCTGTGCCCACACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCGCTGGGC 360
                                                                                                                                          421 GAAGGTACCCATCGCCTACTGCTTGGAGCCCAGGCTCTACCGAGTCTCCTTGGCTTGT 480
241 CCTTGGAGCTATGAGTTGGACAGGGACTTGAATCGGGTCCCCCAGGACCTGTACCACGCT 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Administering an interleukin 174 agonist or antagonist to a mammal regulates various immune and inflammatory responses and is useful to treat for example autoimmune diseases, allergies or response to an
                                                                                                                     AACTCGGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGCCCATGCCATGGCGAG
                                                                                                                                                                                                    AAGGGCACCCACAAGGGCTACTGCCTGGAGCGCAGGCTGTACCGTGTTTCCTTAGCTTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /*tag= c
/product= "Mature murine IL-174"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Murine interleukin 174 (IL-174)-encoding DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "Murine IL-174"
                                                                                                                                                                                                                                                                                    644
                                                                                                                                                                                                                                                                                    615 GIGIGIGIGCGCCCCCGIGIGAIGGCCTAG
                                                                                                                                                                                                                                                                                                           GTGTGTGTGCGGCCCCGGGTCATGGCTTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Rennick DM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                              BP.
                                                                                                                                                                                                                                                                                                                                                                                                                            ABA02394 standard; DNA; 985
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18-APR-2000; 2000US-198488P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17-APR-2001; 2001WO-US12493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            26-FEB-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /*tag= a
/product=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1..48
/*tag=
49..507
/*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hurst SD, Zurawski SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (SCHE ) SCHERING CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2002-034343/04.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    P-PSDB; AAM52692
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200179288-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mus sp
                                                                                                                                                                                                    555
                                                                                                                                                                                                                                                                                                                        481
                                         435
                                                                               301
                                                                                                                     495
                                                                               .
Pp.
                                                                                                                                                             g
                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                        q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                    Qγ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present sequence encodes an interleukin (IL)-174 polypeptide.

It is a mammalian homologue of the cytckine designated CTLA-8 (also referred to as IL-17). The specification also describes homologues

IL-171, IL-175, IL-172, IL-173, IL-174, IL-176, and IL-177. The DNA sequence encoding IL-171 is useful for identifying genes, mRNA and cDNA molecules which code for related or homologous proteins. The IL-171 protein, antibodies against IL-171 and compounds which have binding affinity to IL-171 are useful in treatment of conditions associated with abnormal physiology or development, including abnormal proliferation, e.g. cancerous conditions, or degenerative conditions.

The IL-171 protein can be used in kits and assay methods for identifying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New DNA sequence encoding a mammalian homolog of CTLA-8, designated interleukin-171 (IL-171), useful for recombinant production of IL-171 which can be used for treating conditions associated with abnormal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 ATCCAGGAGGCTGCAGTGCCCAGCTGCTGCCCCAGCAAAGAGCAAGAACCCCCG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         159 ATGTACCAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACACTACAGC---- 212
Interleukin, IL-171; cytokine; CTLA-8; IL-17; IL-175; IL-172; IL-173;
IL-174; IL-176; IL-177; cell proliferation; cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCCTGGAGATATGAGTTGGACAGAGACTTGAACCGGCTCCCCCAGGACCTGTACCACGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ----CACTGGCCCAGCTGCTGCCCCAGCAAAGGGCAGGACACCTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GAGGAGCTGCTGAGGTGGAGCACTGTGCCTGTGCCTCCCCTAGAGCCTGCTAGGCCCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CGCCACCCAGAGTCCTGTAGGGCCAGTGAAGATGGACCCCTCAACAGCAGGGCCCATCTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CACCACGCAGAATCCTGCAGGCCCAGCAAGGATGGCCCCCCTCAACAGCAGGGCCATCTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       52.0%; Score 335.2; DB 21; Length 985; 81.0%; Pred. No. 9.1e-81; 1ve 0; Mismatches 73; Indels 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 985 BP; 199 A; 296 C; 268 G; 222 T; 0 other;
                                                                                                                                                             "interleukin-174"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           compounds that selectively bind to IL-171.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Kastelein RA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Page 21; 111pp; English,
                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10-JAN-2000; 2000WO-US00005
                                                                                                                                                                                                                                                                                                                                                                                                       99US-0229402
                                                                                                                 1..510
/*tag= a
/product= 1..48
                                                                                                                                                                                                /*tag= b
49..507
/*tag= c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    physiology or development
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gorman DM, Bazan JF,
                                                                                                                                                                                                                                                                                                                                                                                                                                               (SCHE ) SCHERING CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2000-476060/41.
P-PSDB; AAB07694.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                WO200042187-A1
                                                                                                                                                                                                                                                                                                                                                                                                       11-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        213 -----
                                                                                                                                                                                                                                                                                                                      20-JUL-2000
                                                                                                                                                                               sig_peptide
                                                                                                                                                                                                                       mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches 413;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local
                                                          Mus sp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             181
                                                                                                  Key
```

õ g

ô 셤 g

ò g

ð

```
Interleukin;
                         IL-177;
                                                  Mus sp
                                                                                                                                                                                                                                                                                                                                                                                                                       fluids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               473
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          293
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   533
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
  δλ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                  The invention relates to methods of directing an immune response in a mammal by the administration of an agonist or antagonist of the cytokine interleukin 174 (IL-174). Administration of an IL-174 agonist directs the interleukin 174 (IL-174). Administration of an IL-174 agonist directs the immune response towards a Th2 response, stimulates an innate immune cesponse, augments the inflammatory response from epithelial or consequences in a seriam and faceal material, while administration of an IL-174 antagonist directs the immune response away from a Th2 type response, and prevents inflammation or granuloma formation. IL-174 agonists may be used to treat autoimmune conditions (particularly multiple sclerosis, systemic lupus a response conditions (particularly multiple sclerosis, systemic lupus conditions agent, or inflammatory conditions such as Crohn's disease, ulcerative colitis, pancreatitis, or hepatitis. IL-174 conditions (e.g., systemic anaphylactic response, skin hypersensitivity response, dermatitis, asthma, fibrosis, or eosinophilic gastritis). The present sequence represents DNA encoding murine IL-174.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 159 ATGTACCAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACATGCTACAGC ---- 212
                                                                                                                                                                                                                                                                                                                                                                                             254
                                                                                                                                                                                                                                                                                                                                                                                                            ATCCAGGAGGCTGCAGTCACTTGCCCAGCTGCCCCAGCAAAAAGCCAAGAACCCCCG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                               GAGGAGCTGCTGAGGTGGAGCACTGTGCCTGTGCCTCCCCTAGAGCCTGCTAGGCCCAAC 314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GAGGAGTGGCTGAAGTGGAGCTCTGCATCTGTGTCCCCCCCAGAGCCTCTGAGCCACACC 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CGCCACCCAGAGTCCTGTAGGGCCAGTGAAGATGGACCCCTCAACAGCAGGGCCATCTCC 374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCCTGGAGATATGAGTTGGACAGAGACTTGAACCGGCTCCCCAGGACCTGTACCACGCC 434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   494
                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 ATGTACCAGGCTGTTGCATTCTTGGCAATGATCGTGGGAACCCACACCGTCAGCTTGCGG
                                                                                                                                                                                                                                                                                                                                                                                              -------CACTGGCCCAGCTGCTCCCCAGCAAAGGGCAGGACACCTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CGTTGCCTGTGCCCGCACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCCCCGGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AACTCGGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGGCCATGCCATGGCGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAGGGCACCCACAAGGGCTACTGCCTGGAGCGCAGGCTGTACCGTGTTTCCTTAGCTTGT
                                                                                                                                                                                                                                                                                                                   24;
                                                                                                                                                                                                                                                                                          Score 335.2; DB 24; Length 985;
Pred. No. 9.1e-81;
0; Mismatches 73; Indels 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cDNA encoding a murine interleukin (IL) 174 polypeptide
                                                                                                                                                                                                                                                                  Sequence 985 BP; 199 A; 296 C; 268 G; 222 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           644
29pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GTGTGTGTGCGGCCCCGTGTGATGGGCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP
                                                                                                                                                                                                                                                                                          52.0%;
81.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  standard; cDNA; 620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                      Best Local Similarity 81.0
Matches 413; Conservative
Page 28-29;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    07-NOV-2000
 Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAA58987
                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAA58987
                                                                                                                                                                                                                                                                                                                                                                                                213
                                                                                                                                                                                                                                                                                                                                                                                                                      61
                                                                                                                                                                                                                                                                                                                                                                                                                                               255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         615
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAA58987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BXHXB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  品菜
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       검
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
ð
                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
```

```
The present sequence encodes an interleukin-174 (IL-174) polypeptide. The polypeptide is an IL-17-like (CTLA-8 related) protein. It is a member of a new group of interleukins, IL-170 polypeptides. The members comprise IL-172, IL-173, IL-174, IL-176, IL-177, and IL-171. IL-170 protein can be used to treat abnormal proliferation e.g. cancer or degenerative conditions. Antibodies can be used in diagnostic methods to detect over production of IL-170 protein in cells or body
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                357
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       polynucleotide encoding a mammalian Interleukin-17 like to identify genes for homologous proteins \boldsymbol{\cdot}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
17; CTLA-8; IL-170; IL-172; IL-173; IL-174; IL-176; cell proliferation; cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    120 TCTCAACAGCAGCACTCTCTTGGAGCTATGAGTTGGACAGGGACTTGAATCGGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    240 CTCCCACATGGACCGGCTGGGCAACTCCGTCCCACTTACCACAACCAGACGGTCTTCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    233 CAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCTGTGCCTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCTAGAGCCTGCTAGGCCCAACCGCCACCCAGGAGTCCTGTAGGGCCAGTGAAGATGGACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACTGTTTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               353 CCTCAACAGCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTGAACCGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCGGCGGCCATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAGCGCAGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <u>ښ</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       620;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 21; Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   593 GTACCGTGTTTCCTTAGCTTGTGTGTGTGCGCCCCGTGTGATGGGCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 620 BP; 125 A; 183 C; 188 G; 124 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 249.6; DB 21;
Pred. No. 1.1e-57;
0; Mismatches 79;
                                                                                                                                                                                                                                                                                                                                                         Kastelein RA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Page 17; 111pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Search completed: May 12, 2003, 01:11:32 Job time : 167 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 38.8%;
Best Local Similarity 80.1%;
Matches 330; Conservative
                                                                                                                                                                                                                  2000WO-US00006
                                                                                                                                                                                                                                                              99US-0228822
                                                                                                                                                                                                                                                                                                                                                         Gorman DM, Bazan JF,
                                                                                                                                                                                                                                                                                                                                                                                                        2000-466130/40.
    IL-17;
                                                                                                                                                                                                                                                                                                           (SCHE ) SCHERING
                                                                                                                                                                                                                                                                                                                                                                                                                              P-PSDB; AAB07599
                          IL-171;
                                                                                                                     WO200042188-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New isolated
protein used
                                                                                                                                                                                                                  10-JAN-2000;
                                                                                                                                                                                                                                                                 11-JAN-1999;
                                                                                                                                                                    20-JUL-2000
```

ä;

us-10-037-591a-2.rag

```
May 12, 2003, 01:11:39 ; Search time 44 Seconds (without alignments) 487.576 Million cell updates/sec
                                                                                                                                                                                                                       US-10-037-591A-2
910
1 MYQVVAFIAMVMGTHTYSHW......ERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /SIDS2/gcgdata/geneseq/geneseqp-emb1/AA2002.DAT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /SIDS2/gcgdata/geneseq/geneseqp-embl/AA2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /gcgdata/geneseg/genesegp-emb1/AA1993
                                                                                                                                                                                                                                                                                                                                                                                                                                      908470
GenCore version 5.1.4_p5_4578
Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    'gcgdata/geneseg/genesegp-emb
                                                                                                                                                                                                                                                                                                                                                                                                                              Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                         908470 seqs, 133250620 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                       OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                    BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Minimum DB seq length: 0
Maximum DB seq length: 2000000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A_Geneseq_101002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IDS2
                                                                                                                                                                                                                                                    Perfect score:
                                                                                                                                                                                                                                                                                                                      Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Database :
                                                                                                                                                                                                                                                                         Sequence:
                                                                                                                                                                                                                                                                                                                                                                                         Searched:
                                                                                                                                  Run on:
                                                                                                                                                                                                                            Title:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

erived by analysis of the total score distribut:

:., '		:	÷								
	Description	A human interleuki	A human interleuki	Human Interleukin-	Human interleukin	Human IL-17 recept	Human Interleukin	PRO10272 polypepti	Human PRO10272. H	Novel human diagno	A murine interleuk
SUMMARIES	ID	AAB07598	AAB07692	AAE18120	AAM52691	AAM47464	AAU04952	AAB47299	AAB87603	ABG29372	AAB07600
	DB	21	71	23	23	23	22	22	22	22	21
	Query Match Length DB	161	161	161	161	161	177	177	177	350	169
op	Query	100.0	100.0	100.0	100.0	100.0	98.7	98.7	98.7	91.6	77.9
	Score	910	910	910	910	910	868	868	868	834	709
	Result No.	-	7	Э	7	ស	9	7	&	6	10

69 21 AAB07694 69 23 AAE18121 60 23 AAE18122 44 21 AAB07599 44 21 AAB07599 44 21 AAB07599 65 21 AAB07599 67 21 AAB07684 97 21 AAB07684 97 21 AAB07684 97 21 AAY92238 97 21 AAY92237 97 22 AAC66121 97 22 AAC66121 97 22 AAC66121 97 22 AAC66121 97 22 AAC66121 97 22 AAC6663 27 22 AAC6669 27 22 AAC6669 27 22 AAC6669 27 22 AAC6669 27 22 AAC6669 27 22 AAC6669 27 22 AAC6669	A murine interleukin- Murine interleukin Murine interleukin Murine interleukin A murine interleuk A murine interleuk A murine interleuk A novel polypeptid A human interleukin	
	AAB0769 AAE1812 AAB2569 AAB0759 AAB0759 AAB0769 AAB0769 AAB1891	
	\sim	
	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	200000
7009 7009	111111111111111111111111111111111111111	4 4 4 4 4 0 U S E 4 2

ALIGNMENTS

RESULT 1

```
Interleukin; IL-17; CTLA-8; IL-170; IL-172; IL-173; IL-174; IL-176;
IL-177; IL-171; cell proliferation; cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                "cAMP protein kinase phosphorylation site"
                                                                                                                                                                                                                                                                                                               "calcium phosphorylation site"
                                                                                                                                                                                                                                                                               "calcium phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note= "phosphorylation site"
41..43
                                                                                                                                                                                                                                                                                                                                                                                                                note= "phosphorylation site"
                                                                                                                                                                                                                                                                                                                                               "myristoylation site"
                                                                                               A human interleukin (IL) 174 polypeptide.
                                                                                                                                                                                                                                 1..16
/note= "signal peptide"
15..17
/note= "calcium phospho
                                                                                                                                                                                                                                                                                                                                                                               "mature protein"
                                                                                                                                                                                                               Location/Qualifiers
AAB07598 standard; Protein; 161 AA.
                                                               07-NOV-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                 .161
                                                                                                                                                                                                                                                                                               16..18
                                                                                                                                                                                                                                                                                                                               2..16
note=
                                                                                                                                                                                                                                                                                                                                                                                                                                 11..24
/note=
                                                                                                                                                                                                                                                                                                                                                                                  note-
                                                                                                                                                                                                                                                               Modified-site
                                                                                                                                                                                                                                                                                               Modified-site
                                                                                                                                                                                                                                                                                                                               Modified-site
                                                                                                                                                                                                                                                                                                                                                                                               Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                               Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Modified-site
                                                                                                                                                                                  Homo sapiens
                                 AAB07598;
                                                                                                                                                                                                                               Peptide
                                                                                                                                                                                                                                                                                                                                                               Protein
                                                                                                                                                                                                               Key
```

~

```
Interleukin; IL-171; cytokine; CTLA-8; IL-17; IL-175; IL-172; IL-173;
IL-174; IL-176; IL-177; cell proliferation; cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       note- "cAMP protein kinase phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "cAMP protein kinase phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "cAMP protein kinase phosphorylation site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            note= "protein kinase C phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         note- "protein kinase C phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "calcium phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                site"
                                                                                                                                                                                                                                                                                                                                                                                                                                             'note= "calcium phosphorylation site"
                   QTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            note- "calcium phosphorylation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           note= "phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           note- "phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     note- "tyrosine kinase site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note= "phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ...119
te= "myristoylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                . 122
te= "myristoylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "myristoylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "phosphorylation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                note- "phosphorylation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "N-glycosylation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "mature protein"
                                                                                                                                                                                                                                                                                                                                                                                                      'note= "signal peptide"
                                                                                                                                                                                                                                        human interleukin-174 polypeptide.
                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                             AAB07692 standard; Protein; 161 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10-JAN-2000; 2000WO-US00005
                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note= "m
119..121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ..107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ..161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ..102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12..16
/note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   'note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          'note"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                note.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO200042187-A1
                                                                                                                                                                                                                                                                                                                                                                                                                           Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Addified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Modified-site
                                                                                                                                                                                                      07-NOV-2000
                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20-JUL-2000
                                                                                                                                                               AAB07692;
                                                                                                                                                                                                                                                                                                                                                                                     Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Protein
 121
                                    121
                                                                                            RESULT 2
                                    g
   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present sequence represents an interleukin-174 (IL-174) polypeptide. The polypeptide is an IL-17-11ke (CTLA-8 related) protein. It is a member of a new group of interleukins, IL-170 polypeptides. The members comprise IL-172, IL-173, IL-174, IL-176, IL-177, and IL-171. IL-170 protein can be used to treat abnormal protliferation e.g. cancer or degenerative conditions. Antibodies can be used in diagnostic methods to detect over production of IL-170 protein in cells or body
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MYQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRA 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New isolated polynucleotide encoding a mammalian Interleukin-17 like protein used to identify genes for homologous proteins -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      note= "cAMP protein kinase phosphorylation site"
                                                                                                                                                                                                                                                          "cAMP protein kinase phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ;
0
'note= "protein kinase C phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 'note= "protein kinase C phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 161;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                         site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 100.0%; Score 910; DB 21; Best Local Similarity 100.0%; Pred. No. 4.1e-86; Matches 161; Conservative 0; Mismatches 0;
                                                                         "calcium phosphorylation
                                                                                                                                                                                                               note= "phosphorylation site"
5..98
                                                                                                         "phosphorylation site"
                                                                                                                                                                                  note- "phosphorylation site"
                                                                                                                                                                                                                                                                         5..102
note= "tyrosine kinase site"
                                                                                                                                                                                                                                                                                                                               note- "phosphorylation site"
                                      "phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                     "N-glycosylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    'note= "phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                        'note= "myristoylation site"
18..122
                                                                                                                                                                                                                                                                                                                                                                                                                                             "myristoylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kastelein RA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 11; Page 16; 111pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10-JAN-2000; 2000WO-US00006
                                                                                                                                                                                                                                                                                                                                                                       /note= "N
115..119
                                                                                                                                                                                                                                                                                                                                                                                                                                             /note= "m
119..121
                                                                                                                                                                                                                                                                                                                                                ...107
                                                                           note=
                                                                                                             note=
3..56
                                      note=
                                                                                                                                                                                                                                                            note-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bazan JF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (SCHE ) SCHERING CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2000-466130/40.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    161 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N-PSDB; AAA58986.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO200042188-A2
                                                                                                                                                                 Modified-site
                 Modified-site
                                                                                                                             Modified-site
                                                                                                                                                                                                      Modified-site
                                                                                                                                                                                                                                        Modified-site
                                                                                                                                                                                                                                                                           Modified-site
                                                                                                                                                                                                                                                                                                              Modified-site
                                                                                                                                                                                                                                                                                                                                                                                       Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                         Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Modified-site
                                                                                        Modified-site
                                                                                                                                                                                                                                                                                                                                                    Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-JUL-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gorman DM,
```

Sequence fluids.

_

ð 윰 ŏ a

17..161 /label- Mature_IL_17L_protein

WO200208285-A2

Protein

1..16 /label= Signal_peptide

 \sim

```
epilepsy; atherosclerosis; heart failure; angiogenesis; endometriosis; leukaemia; retinal neuropathy; infertility; miscarriage; inflammation;
                           Kastelein RA;
                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
      99US-0229402
                                                                  physiology or development -
                                                                                                                                                                                                                                                                                   07-MAY-2002 (first entry)
                          Bazan JF,
                (SCHE ) SCHERING CORP
                                    WPI; 2000-476060/41.
                                                                                                                                                       161 AA;
                                         N-PSDB; AAA59158
      11-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                          Gorman DM,
                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                          AAE18120;
                                                   New DNA
                                                                                                                                                                                                                            121
                                                                                                                                                                                                                  19
                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                      RESULT 3
ö
                                                                                                                                                                                                                  g
                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                      g
                                                                                                                                                                                    ò
                                                                                                                                                                                              a
```

The invention relates to nucleic acid molecules encoding Interleukin 17 (IL-17)-like polypeptides. IL-17 DNA can be used to modulate the levels of IL-17 protein in an animal. The IL-17 protein is useful for treating, preventing or ameliorating a disease, such as immune system dysfunction (rheumatoid arthritis, osteoarthritis, inflammatory joint disease); autoimmune (multiple sclerosis, lupus, diabetes, inflammatory bowel disease, transplant rejection, graft vs. host disease); infections (HIV, hepatitis, bacterial); weight disorders (obesity, anorexia, cachexia, sepsis); neuronal dysfunction (Alzheimer's, Parkinson's disease); lung (acute respiratory distress syndrome, cystic fibrosis, emphysema); skin (psoriasis, eczema, wound healing); kidey (glomerulonephritis); bone (osteoporosis, Paget's disease, hypercalcaemia) vascular system (epilepsy atherosclerosis, heart failure, anglogenesis); tumours, cancers (lymphoma

Nucleic acid molecules encoding Interleukin 17 (IL-17) - like polypeptides useful in the treatment, prevention and diagnosis of diseases e.g. cancer

Claim 13; Fig 1; 242pp; English.

ŝ

Nguyen HQ,

Elliot GS,

Silbiger SM,

Yeh R,

Medlock E,

(AMGE-) AMGEN INC.

WPI; 2002-155217/20. N-PSDB; AAD28771.

22-JUN-2000; 2000US-213125P. 02-FEB-2001; 2001US-266159P. 16-MAR-2001; 2001US-0810384. 21-JUN-2001; 2001WO-US19861

Leukaemia); reproductive (infertility, miscarriage, endometriosis), eye (blindness, retinal neuropathy) and treatment of diseases involving inflammation. The present sequence is human Interleukin-17 like (IL-17L)

161 AA;

Sequence

The present sequence represents an interleukin (IL)-174,polypeptide. It is a mammalian homologue of the cytokine designated CTLA-8 (also referred to as IL-17). The specification also desoribes homologues IL-17, IL-172, IL-173, IL-174, IL-176, and IL-177. The DNA sequence encoding IL-171 is useful for identifying genes, mRNA and cDNA molecules which code for related or homologous proteins. The IL-171 protein, antibodies against IL-171, and compounds which have binding affinity to IL-171 are useful in treatment of conditions associated with abnormal physiology or development, including abnormal profiferation, e.g. cancerous conditions, or degenerative conditions. The IL-171 protein can be used in kits and assay methods for identifying compounds that selectively bind to IL-171. New DNA sequence encoding a mammalian homolog of CTLA-8, designated interleukin-171 (IL-171), useful for recombinant production of IL-171 which can be used for treating conditions associated with abnormal Disclosure; Page 19; 111pp; English

61 SEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHN 120 1 MYQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRA 60 0; Length 161; Indels QTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161 Query Match 100.0%; Score 910; DB 21; Best Local Similarity 100.0%; Pred. No. 4.1e-86; Matches 161; Conservative 0; Mismatches 0;

Human; interleukin-17 like; IL-17L; immune system dysfunction; diabetes; cytostatic; multiple sclerosis; rheumatoid arthritis; therapy; lupus; inflammatory bowel disease; neuronal dysfunction; transplant rejection; autoimmune disorder; lung; skin; kidney; bone; eye; vascular system; infection; hepatitis; obesity; anorexia; cachexia; glomerulonephritis; cystic fibrosis; Alzheimer's disease; Parkinson's disease; emphysema; eczema; sepsis; psoriasis; wound healing; osteoporosis; Paget's disease; epilepsy; atherosclerosis; heart failure; angiogenesis; endometriosis; Human Interleukin-17 like (IL-17L) protein. AAE18120 standard; Protein; 161 AA

```
1 MYQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRA 60
                                                           ó
 Length 161;
                                                                                                                                             QTVFYRRPCHGEKGTHKGYCLERRLYRVSLACYCVRPRVMG 161
                                                                                                                                                        121 QTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
100.0%; Score 910; DB 23;
llarity 100.0%; Pred. No. 4.1e-86;
Conservative 0; Mismatches 0;
                                                                                                                                                                                                                             AAM52691 standard; Protein; 161 AA.
                                                                                                                                                                                                                                                                             (first entry)
Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                             26-FEB-2002
                      Matches 161;
                                                                                                                                                                                                                                                      AAM52691;
                                                                                                                                            121
                                                                                                                                                                                                       RESULT 4
                                                                                                                   do ...
                                                                      g
                                                                                              á
                                                                                                                                             ŏ
                                                                                                                                                                  Dp
```

ó;

us-10-037-591a-2.rag

61 SEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHN 120

```
mammal by the administration of an agonist or antagonist of the cytokine mammal by the administration of an agonist or antagonist of the cytokine interleukin 174 (IL-174). Administration of an IL-174 agonist directs the interleukin 174 (IL-174). Administration of an IL-174 agonist directs the immune response towards a Th2 response, stimulates an innate immune cresponse towards the inflammatory response from epithelial or fibroblast cells, induces gut cell growth, promotes extramedullary confidence away from a Th2 type response, in serum and faecal material, while administration of an IL-174 antagonist directs the immune conditions (particularly multiple sclerosis, systemic lupus conditions (particularly multiple sclerosis, systemic lupus conditions agent, or inflammatory conditions such as Crohn's conditions may be used to treat inflammatory conditions such as Crohn's conditions may be used to treat inflammatory, allergic or Th2-mediated conditions (e.g., systemic anaphylactic response, skin hypersensitivity response, dermatitis, asthma, fibrosis, or eosinophilic gastritis). The
                                 Human; interleukin 174; IL-174; cytokine; Th2 response; Inflammation; gut cell growth, extramedullary haematopoiesis; antibody response; granuloma formation; autoimmune condition; multiple sclerosis; systemic lupus erythematosus; rheumatoid arthritis; diabetes; psoriasis; infectious agent; inflammatory condition; Crohn's disease; ulcerative colitis; pancreatitis; hepatitis; alterty; Th2-mediated condition; systemic anaphylactic response; skin hypersensitivity response; skin dermatitis; asthma; fibrosis; eosinophilatic gastritis; immunomodulator; antificiammatory; antiarthritic; antidiabetic; antifungal; dermatological; neuroprotective; antiallergic; agonist; antagonist.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Administering an interleukin 174 agonist or antagonist to a mammal regulates various immune and inflammatory responses and is useful to treat for example autoimmune diseases, allergies or response to an infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 161;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%; Score 910; DB 23;
larity 100.0%; Pred. No. 4.1e-86;
Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         present sequence represents human IL-174.
                                                                                                                                                                                                                                                                                                                          1..16
/label- Signal_peptide
17..161
                                                                                                                                                                                                                                                                                                                                                                                   17..161
/label= Mature_IL-174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Rennick DM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Examples; Page 27-28; 29pp; English.
                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
Human interleukin 174 (IL-174).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17-APR-2001; 2001WO-US12493.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18-APR-2000; 2000US-198488P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Hurst SD, Zurawski SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (SCHE ) SCHERING CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2002-034343/04.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   161 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           N-PSDB; ABA02393
                                                                                                                                                                                                                                                                                                                                                                                                                                           WO200179288-A2.
                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Seguence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                   Protein
                                                                                                                                                                                                                                                                                                                                           Peptide
```

```
interleukin 17 (IL-17) receptor like proteins (see ABA03200-ABA03202, AAM47456, AAM47458 and AAM47459). The IL-17 receptor-like proteins and coding sequences are useful for treating a pathological condition related to immune system dysfunction (e.g. psoriatic arthritis), infections (e.g. viral infections), weight disorders (e.g. obesity), neuronal dysfunction disorders (e.g. Alzheimer's disease), lung disorders (e.g. asthma), skin disorders (e.g. osteoporosis), vascular system disorders (e.g. disorders (e.g. vateoporosis), vascular system disorders (e.g. infections), infinity disorders (e.g. glomerulonephritis), bone disease (e.g. osteoporosis), vascular system disorders (e.g. disorders, reproductive disorders, tumours and inflammation. The present sequence is the protein sequence for IL-17E, a human IL-17 receptor like protein ligand.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                 antipsoriatic; antimicrobial; anoretic; nootropic; neuroprotective; antiasthmatic; antiallergic; dermatological; cytostatic; gene therapy; interleukin 17; immune system disorder; infection; weight; reproductive; neuronal dysfunction; lung; asthma; skin; eczema; kidney; inflammation; glomerulonephritis; bone; osteoporosis; vascular system; ischaemia; eye;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Three human nucleic acids encoding interleukin 17 (IL-17) receptor like polypeptides, useful for treating, diagnosing, ameliorating or preventing immune system disorders (e.g. psoriatic arthritis) and
Gaps
                                                                                                                                                                                                                                                                                                                    Human; IL-17 receptor-like protein; immunomodulatory; antiarthritic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         present invention relates to novel human nucleic acids encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 161;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Elliot GS,
                                                                   100.0%; Score 910; DB 23;
100.0%; Pred. No. 4.1e-86;
ive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                   Human IL-17 receptor like protein ligand, IL-17E.
                                                     QTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Silbiger SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 7; Page 234-235; 239pp; English.
                                                                                                                                                                                Ą
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        infections (e.g. viral infections)
                                                                                                                                                                              AAM47464 standard; Protein; 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <u>بر</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16-WAR-2000; 2000US-189923P.
12-WAY-2000; 2000US-204208P.
27-NOV-2000; 2000US-0723232.
02-FEB-2001; 2001US-266159P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16-MAR-2001; 2001WO-US08688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Yeh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 100.
Best Local Similarity 100.
Matches 161; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2002-055100/07.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Medlock E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (AMGE-) AMGEN INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N-PSDB; ABA03213.
                                                                                                                                                                                                                                                                                                                                                                                                                                tumour; IL-17E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO200168705-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                  11-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20-SEP-2001.
                                                                                                                                                                                                                 AAM47464;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Jing S,
                                                                                         121
                                                       121
                                                                                                                                           RESULT 5
                                                                                                                                                                                  g
                                                        ò
```

ö

0

Indels

Similarity

Local

Best Loca Matches

g

δ

161;

1 MYQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRA 60

```
graft rejection; graft-versus-host disease.
                                                                                                                                                                                                                                                                                                                                                             RESULT 7
    ò
                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                            Human; Interleukin-17E ligand; IL-17E; agonist; antagonist; PRO10272; DNA 14751-2821; systemic lupus erythematosus; rheumatoid arthritis; osteoarthritis; diabetes mellitus; allergic disease; asthma; demyelinating disease; degenerative cartilaginous disorder; transplantation associated disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Grimaldi CJ;
Vandlen RL;
                               SEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHN 120
                                       61 SEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHN 120
                  09
1 MYQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRA
         127...135
/note= "Tyrosine kinase phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A, Godowski PJ,
Van Lookeren M,
                                                            Filvaroff E, Fong S, Goddard A, Godow.
L, Li H, Hillan KJ, Tumas D, Van Look.
CK, Williams PM, Wood WI, Yansura DG;
                                                                                                                                                                                                                                                                                                                   136.140
/note="Asn is glycosylated"
150.156
/note="N-myristoylation site"
                                                                                                                                                                                                                                                                                             "N-myristoylation site"
                                                                                                                                                                                                                                                             /label Signal_peptide
33..177
/label Mature_IL_17E
                                                                                                                                                                  Human Interleukin 17E ligand, IL-17E.
                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                   AAU04952 standard; Protein; 177 AA.
                                                                                                                                                                                                                                                                                                                                                                                        20-DEC-2000; 2000WO-US34956
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000US-0644848
                                                                                                                                                                                                                                                                                                                                                                                                                                                        2000WO-US07532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2000WO-US23328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2000WO-US30873
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2000WO-US32678
                                                                                                                                                                                                                                                                                                                                                                                                                99WO-US31274
                                                                                                                                                                                                                                                                                                                                                                                                                        2000US-0175481
                                                                                                                                                                                                                                                                                                                                                                                                                               2000WO-US04341
2000WO-US05841
                                                                                                                                                                                                                                                                                                                                                                                                                                                2000US-0191007
                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000WO-US15264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2000US-0213087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2000US-0242837
                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                             'note-
                                                                                                                                                                                                                                                                                       44..50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                          WO200146420-A2
                                                                                                                                                                                                                                                                                                                   Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gurney AL, L
Watanabe CK,
                                                                                                                                                   24-OCT-2001
                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                               21-MAR-2000;
21-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-DEC-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                         11-JAN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                               18-FEB-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                        02-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              02-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       22-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24-OCT-2000;
10-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                         28-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                       23-DEC-1999
                                                                                                                                                                                                                                                                                                                                                                                                                30-DEC-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-NOV-2000
                                                                                                                                   AAU04952;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -AUG-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Chen J,
                                                                                                                                                                                                                                                        Peptide
                                                                                                                                                                                                                                                                      Protein
                                                                                                                                                                                                                                                                                      Region
                                                                                                                                                                                                                                                                                                     Region
                                                                                                                                                                                                                                                                                                                                   Region
                                61
                                                                                                             AAU04952
                                                                                                     RESULT
               g
                                             셤
                                                                             셤
                                                                                                                                   ŏ
                                à
                                                              ö
```

```
The sequence is PRO10272 which is the human Interleukin 17E ligand,

IL-17E, encoded by DNA 147531-2821. A composition

Containing ant/agonists to the PRO polypeptides or individual components

are useful for treating a mammal with an immune related disease, e.g.

Systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis,

uvenile chronic arthritis, a spondyloarthropathy, systemic sclerosis, an

idiopathic inflammatory myopathy, Sjogram's syndrome, systemic

vasculitis, sarcoidosis, autoimmune hemolytic anaemia, autoimmune

thrombocytopaenia, thyroiditis, diabetes mellitus, immune-mediated renal

disease, a demyelinating disease, an autoimmune or immune-mediated skin

clisease, contact dermatitis, an allegic disease e.g. food

hypersensitivity, asthma, a transplantation associated disease, or a

chronic inflammatory demyelinating polyneuropathy. Treating a

chronic inflammatory demyelinating polyneuropathy. Treating a

degenerative cartilaginous disorder comprises administering a PRO1031 or

PRO1122 polypeptide agonist, or anagonist to the mammal. Numerous

examples of the diseases and disorders are given in the specification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                juvenile chronic arthritis; spondyloarthropathy; systemic sclerosis; idiopathic inflammatory myopathy; Sjogren's syndrome; skin disease; systemic vasculitis; sarcoidosis; autoimmune haemolytic annemia; asthma; autoimmune thrombocytopaenia; thyroiditis; diabetes mellitus; allergy; immune-mediated renal disease; demyelination; central nervous system;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  peripheral nervous system; idiopathic demyelinating polyneuropathy; Guillain-Barre syndrome; hepatobiliary disease; eosinophilic pneumonia; chronic active hepatitis; primary biliary cirrhosis; allergic rhinitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          granulomatous hepatitis; sclerosing cholangitis; food hypersensitivity; inflammatory bowel disease; gluten-sensitive enteropathy; urticaria; Whipple's disease; idiopathic pulmonary fibrosis; contact dermatitis; psoilasis; atopic dermatitis; hypersensitivity pneumonitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     63 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   79 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRO; PRO1081; PRO1274; PRO10272; proliferation; T-lymphocyte; PRO1199; PRO1556; PRO4401; PRO10268; inhibition; stimulation; infiltration; monouclear cell; eosinophil; erythema multiforme; polymorphonuclear neutrophil; PMN; antibody; immune-related disorder; systemic lupus erythematosus; rheumatoid arthritis; osteoarthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                 Novel PRO polypeptides homologous to interleukin-17, useful for the diagnosis and treatment of immune related disease e.g. rheumatoid arthritis and diabetes -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          98:7%; Score 898; DB 22; Length 177; 100.0%; Pred. No. 8:1e-85; ive 0; Mismatches 0; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                123 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   139 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ą.
                                                                                                                                                                                                                                                                                                            Claim 10; Fig 6; 188pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAB47299 standard; Protein; 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            22-AUG-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 100.(
Matches 159; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRO10272 polypeptide.
WPI; 2001-451708/48.
N-PSDB; AAS09511.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            177 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAB47299;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
```

ö

62

4..50 label N-myristoylation site

label signal peptide 3..177 label Mature PRO10272

Location/Qualifiers

/label- N-myristoylation site N-glycosylation site

136..140 /label- N-

150,.156

.27..135

99WO-US28313 99US-0170262 99US-0172059 2000US-0177118 2000WO-US04342 2000US-0187202 2000WO-US14941 2000US-0209832 2000WO-US23328

2000US-0175481

```
Claim 1; Fig 18; 124pp; English.
                                                                                      10-NOV-2000; 2000WO-US30873
                                                                                                                                                                                                                                                                                                           graft-versus-host disease
                                                                                                                                                    Goddard A, Go
Watanabe CK,
                                                                                                                                            (GETH ) GENENTECH INC.
                                                                                                                                                                WPI; 2001-381384/40.
N-PSDB; AAC85969.
                                                                     WO200140465-A2
                                Modified-site
                                        Modified-site
                                                         Modified-site
                                                Modified-site
    Homo sapiens.
                                                                                                                                    24 - AUG - 2000;
                                                                                                                           30-MAY-2000;
05-JUN-2000;
                                                                                                               20-JAN-2000;
                                                                                                                   18-FEB-2000;
                                                                                                                        03-MAR-2000;
                                                                                                           11-JAN-2000;
                                                                                              30-NOV-1999;
                                                                             07-JUN-2001
                                                                                                       23-DEC-1999
                                                                                                                                                    Fong S, (
Tumas D,
               Peptide
                        Protein
```

Grimaldi CJ, Zhang Z;

Godowski PJ, Wood WI,

```
The present sequence is a human PRO polypeptide (secreted and transmembrane). The PRO protein, and PRO agonists, PRO antagonists or anti-PRO antibodies are useful for preparation of a medicament useful in the treatment of a condition which is responsive to the PRO protein, agonists, antagonists or anti-PRO antibodies. The PRO protein may also be
                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                         19 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 78
                                                                                                                                                                                                     3 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE
                                                                                                                                                                                                                                                                                                                                              DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eighty four nucleic acids encoding PRO polypeptides, useful in molecular biology, including use as hybridization probes, and in chromosome and gene mapping.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Godowski PJ;
                                                                                                                                     .;
0
                                                                    Length 177;
                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Goddard A,
Wood WI;
                                                                Query Match 98.7%; Score 898; DB 22;
Best Local Similarity 100.0%; Pred. No. 8.1e-85;
Matches 159; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    139 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gerritsen ME,
Watanabe CK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 12; Fig 156; 278pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAB87603 standard; Protein; 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99WO-US21090.
99US-0169495.
99US-0170262.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; PRO protein; mapping
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             24-AUG-2000; 2000WO-US23328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2000US-0175481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          000WO-US04341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           000WO-US04342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0000WO-US04414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2000US-0187202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2000WO-US14042
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2000US-0209832
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0000S-0199397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   000WO-US05601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15-MAY-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eaton DL, Filvaroff E,
Grimaldi CJ, Gurney AL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2001-183260/18.
N-PSDB; AAF92135.
177 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human PRO10272.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200116318-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        05-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11-JAN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              18-FEB-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   31-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      07-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22-FEB-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   03-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      09-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        08-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       32-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAB87603;
   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   123
                                                                                                                                                                                                                                                                                                                                                  63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAB87603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT
                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                             엄
                                                                                                                                                                                                                                                                                                                                                  δy
                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The sequences given in AAB47291-99 show PRO polypeptides. PRO1081, PRO1274 and PRO10272 stimulate the proliferation of T-lymphocytes and PRO1274 and PRO12022 act to enhance the infiltration of T-lymphocytes. PRO1754 and PRO9122 act to enhance the infiltration of mononuclear cells, eosinophils or polymorphonuclear neutrophils (PMN) bind to them, are used to treat an immune-related disorder in a mammal. The PRO CDNA's and antibodies which bind to them, are used to treat an immune-related disorder in a mammal. Such disorders include systemic lupus erythematosus, rheumatoid arthritis, osteomic siteminic arthritis, a stondyloarthropathy, systemic sclerosis, an idiopathic inflammatory myopathy, Sjogren's syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic anaemia, autoimmune thrombocycopaemia, thyroiditis, diabetes mellitus, immune-mediated renal disease, a demyelinating disease of the central or peripheral nervous system, idiopathic demyelinating polyneuropathy, a hepatobiliary disease, infectious or autoimmune chronic active hepatitis, primary bilary circumance control of the central or peripheral central or peripheral nervous system, idiopathic confidence of the central or peripheral nervous system, idiopathic confidence of the central or peripheral nervous system, idiopathic confidence of autoimune chronic active hepatitis, primary bilary confidences of the central or described active hepatitis, primary bilary confidences of the central or described active hepatitis, primary bilary confidences or demyellanders hepatitis, sclerosing cholanders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        inflammatory bowel disease, gluten sensitive enteropathy, Whipple's disease, an autoimmune or immune-mediated skin disease, a bullous skin disease, erythema multiforme, contact dermatitis, psoriasis, an allergic disease, asthma, allergic rhinitis, atopic dermatitis, food hypersensitivity, uricaria, an immunologic disease of the lung, eosinophilic pneumonia, idiopathic pulmonary fibrosis, hypersensitivity pneumonitis, a transplantation associated disease, graft rejection or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Isolated PRO polypeptide useful for treat or diagnose an immune-related disorder e.g. arthritis, asthma, allergy, diabetes or psoriasis -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hillan KJ;
                                                                                                                                                                                                                                                                                                                                              Tyrosine kinase phosphorylation site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gurney AL,
```

```
QΩ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ^{\circ}
                                                                                                                                                                                                                                                           ö
employed as molecular weight markers for protein electrophoresis. The PRO coding sequence has applications in molecular biology, including use as hybridisation probes, and in chromosome and gene mapping
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                           3 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 62
                                                                                                                                                                                                                                                                                                                                          19 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   forensic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; chromosome mapping; gene mapping; gene therapy; forensic food supplement; medical imaging; diagnostic; genetic disorder.
                                                                                                                                                                                                                                                        ó
                                                                                                                                                                                           Length 177;
                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to isolated polynucleotide (I) and
                                                                                                                                                                                     98.7%; Score 898; DB 22;
100.0%; Pred. No. 8.1e-85;
ive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         123 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         139 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 20; SEQ ID No 59731; 103pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel human diagnostic protein #29363.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABG29372 standard; Protein; 350 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tang YT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        31-MAR-2000; 2000US-0540217.
23-AUG-2000; 2000US-0649167.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-MAR-2001; 2001WO-US08631
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                  Ouery Match
Best Local Similarity 100.
Matches 159; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Drmanac RT, Liu C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2001-639362/73.
N-PSDB; AAS93559.
                                                                                                                            177 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (HYSE-) HYSEQ INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO200175067-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11-OCT-2001.
                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABG29372;
                                                                                                                                                                                                                                                                                                                                                                                                                                   63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABG2937;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT
      82888
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                           å
                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                   õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               . 원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A STANDARD S
```

```
5
The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. ABG00010-ABG30377 represent novel human diagnostic amino acid sequence of the invention.

Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      88 DGPLNSRAISPWRYEPDKCRPHRLDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNS 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      63 DGPLNSRAISPWRYE------LDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNS 114
                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28 RVVAFLAMVMGTHITYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       IL-173; IL-174; IL-176;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "cAMP protein kinase phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "cAMP protein kinase phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                     10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "protein kinase C phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "protein kinase C phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                      Length 350;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           115 ELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLAC -- VCVRPRVM 160
                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "calcium phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                        ..
                                                                                                                                                                                                                                                                                                                                                                      Score 834; DB 22;
Pred. No. 7.8e-78;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "calcium phosphorylation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Interleukin; IL-17; CTLA-8; IL-170; IL-172; IL-177; IL-171; cell proliferation; cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                  1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A murine interleukin (IL) 174 polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "phosphorylation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /note= "signal peptide"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "mature protein"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAB07600 standard; Protein; 169 AA
                                                                                                                                                                                                                                                                                                                                                                      91.6%;
91.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               07-NOV-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7..169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29..32
/note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 49..51
/note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 'note
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            53..55
/note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        'note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    'note=
                                                                                                                                                                                                                                                                                                                                                                                                     Best Local Similarity
                                                                                                                                                                                                                                                                                                             350 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches 153;
                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAB07600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACCONTACTOR OF THE FORM OF THE
```

"cAMP protein kinase phosphorylation site"

19..32 'note=

note=

"phosphorylation site"

note=

"phosphorylation

"calcium phosphorylation site"

"mature protein"

..169

note=

note=

"protein kinase C phosphorylation site'

note= note= note=

"phosphorylation site"

"phosphorylation

"protein kinase C phosphorylation site"

"signal peptide"

'note=

note= "cAMP protein kinase phosphorylation site"

"calcium phosphorylation site"

note= "phosphorylation

. . 69 note= "N-glycosylation site"

note=

"myristoylation site"

'note= "m. 27..129 ..127 ..114

note=

"calcium phosphorylation site"

note=

"phosphorylation site"

"protein kinase C phosphorylation site'

'note= "phosphorylation site"

œ

```
/note= "phosphorylation site"
                                          Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-JAN-2000; 2000WO-US00005
                                                                                                                                                                                                                                      'note=
                                                                                                                                                                                                                                                                                                                                                                                /note=
61..64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (SCHE ) SCHERING CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200042187-A1
                                                                                  Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Modified-site
                                                                                                                                         Modified-site
                                                                                                                                                                     Modified-site
                                                                                                                                                                                              Modified-site
                                                                                                                                                                                                                                                     Modified-site
                                                                                                                                                                                                                                                                                Modified-site
                                                                                                                                                                                                                                                                                                            Modified-site
                                                                                                                                                                                                                                                                                                                                        Modified-site
                                                                                                                                                                                                                                                                                                                                                                   Modified-site
                                                                                                                                                                                                                                                                                                                                                                                             Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                         Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20-JUL-2000.
                                                                                                               Protein
                                                        Peptide
                 Mus sp.
                                           Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ij
                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present sequence represents an interleukin-174 (IL-174) polypeptide. The polypeptide is an IL-17-like (CTLA-8 related) protein. It is a member of a new group of interleukins, IL-170 polypeptides. The members comprise IL-172, IL-173, IL-174, IL-177, and IL-171, IL-170 protein can be used to treat abnormal proliferation e.g. cancer or degenerative conditions. Antibodies can be used in diagnostic methods to detect over production of IL-170 protein in cells or body
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRG 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Interleukin, IL-171; cytokine; CTLA-8; IL-17; IL-175; IL-172; IL-173;
IL-174; IL-176; IL-177; cell proliferation; cancer.
                                                                                                                                                                                                                                                                                                                                                                                            New isolated polynucleotide encoding a mammalian Interleukin-17 like protein used to identify genes for homologous proteins -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MYQAVAFLAMIVGTHTVSLRIQEGCSHLPSCCPSKEQEPPEEMLKWSSASVSPPEPLSHT 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MYQVVAFLAMVMGTHTY-----SHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPN 52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .
8
                                                     123 .127
/note= "myristoylation site"
/note= "protein kinase C phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 169;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVM 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
              "calcium phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 709; DB 21;
Pred. No. 2.7e-65;
; Mismatches 22;
                                                                                                                         'note= "phosphorylation site"
                                          "N-glycosylation site"
                                                                                                                                                      /note= "phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A murine interleukin-174 polypeptide
                                                                                                                                                                                                                                                                                                                          Kastelein RA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAB07694 standard; Protein; 169 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 11; Page 18; 111pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      77.9%;
76.8%;
                                                                                                                                                                                                                                        10-JAN-2000; 2000WO-US00006
                                                                                                                                                                                                                                                                  99US-0228822
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              07-NOV-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                           12..114
                                          note=
                                                                                                                                                                                                                                                                                             (SCHE ) SCHERING CORP
                                                                                                                                                                                                                                                                                                                          Bazan JF,
                                                                                                                                                                                                                                                                                                                                                   WPI; 2000-466130/40.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           169 AA;
                                                                                                                                                                                                                                                                                                                                                                   N-PSDB; AAA58988
                                                                                                                                                                                 WO200042188-A2
Modified-site
                          Modified-site
                                                     Modified-site
                                                                                 Modified-site
                                                                                                            Modified-site
                                                                                                                                      Modified-site
                                                                                                                                                                                                                                                                   11-JAN-1999;
                                                                                                                                                                                                            20-JUL-2000
                                                                                                                                                                                                                                                                                                                          Gorman DM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 129:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Seguence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAB07694;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 fluids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121
 ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <u>۾.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
```

```
New DNA sequence encoding a mammalian homolog of CTLA-8, designated interleukin-171 (IL-171), useful for recombinant production of IL-171 which can be used for treating conditions associated with abnormal physiology or development
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present sequence represents an interleukin (IL)-174 polypeptide. It is a mammalian homologue of the cytokine designated CTLA-8 (also referred to as IL-17). The specification also describes homologues IL-17, IL-175, IL-173, IL-173, IL-174, IL-176, and IL-177. The DNA sequence encoding IL-171 is useful for identifying genes, mRNA and CDNA molecules which code for related or homologous proteins. The
Kastelein RA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; Page 21; 111pp; English.
Gorman DM, Bazan JF,
                                                                                    WPI; 2000-476060/41.
N-PSDB; AAA59160.
```

```
QQ
                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                               ద
                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        οy
                                                                                                                             ä
IL-171 protein, antibodies against IL-171, and compounds which have binding affinity to IL-171 are useful in treatment of conditions associated with abnormal physiology or development, including abnormal proliferation, e.g. cancerous conditions, or degenerative conditions. The IL-171 protein can be used in kits and assay methods for identifying compounds that selectively bind to IL-171.
                                                                                                                                                                                                                                                                                                                                                                                                   Mouse; interleukin-17 like; IL-17L; immune system dysfunction; diabetes; cytostatic; multiple sclerosis; rheumatoid arthritis; therapy; lupus; inflammatory bowel disease; neuronal dysfunction; transplant rejection; autoimmune disorder; lung; skln; kidney; bone; eye; vascular system; infection; hepatitis; obesity; anorexia; cachexia; glomerulonephritis; cystic fibrosis; Alzheimer's disease; Parkinson's disease; emphysema; eczema; sepsis; psoriasis; wound healing; osteoporosis; paget's disease; epilepsy; atherosclerosis; heart failure; angiogenesis; endometriosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  epilepsy; atherosclerosis; neart iditute; augroyemet; inflammation; leukaemia; retinal neuropathy; infertility; miscarriage; inflammation;
                                                                                                                                                                                       53 RHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRG 112
                                                                                                                                                                                                  1 MYQVVAFLAMVMGTHTY-----SHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPN 52
                                                                                                                                                          ŝ
                                                                                                                            .
8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Jing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Nucleic acid molecules encoding Interleukin 17 (IL-17) - like
                                                                                                      Length 169;
                                                                                                                                                                                                                                   113 NSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVM 160
                                                                                                                                                                                                                                                121 NSVPLYHNQTVFYRRPCHGEEGTHRRYCLERRLYRVSLACVCVRPRVM 168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Nguyen HQ,
                                                                                                  Score 709; DB 21;
Pred. No. 2.7e-65;
9; Mismatches 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /label- Signal_peptide
19..169
/label- Mature_IL_17L_protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Elliot GS,
                                                                                                                                                                                                                                                                                                                                                                                Mouse Interleukin-17 like (IL-17L) protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Socation/Qualifiers
                                                                                                                                                                                                                                                                                                                AAE18121 standard; Protein; 169 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Silbiger SM,
                                                                                                  77.98;
76.88;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      02-FEB-2001; 2001US-266159P.
16-MAR-2001; 2001US-0810384.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21-JUN-2001; 2001WO-US19861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2000US-213125P
                                                                                                                                                                                                                                                                                                                                                           07-MAY-2002 (first entry)
                                                                                                                       Matches 129; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2002-155217/20.
                                                                                                Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Medlock E, Yeh R,
                                                                            169 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (AMGE-) AMGEN INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N-PSDB; AAD28772
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO200208285-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   02-FEB-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           22-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              31-JAN-2002
                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                      AAE18121;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Protein
                                                                                                                                                                                                                                                                                         RESULT 12
AAE18121
8888888888
                                                                                                                                             ò
                                                                                                                                                                  g
                                                                                                                                                                                        ò
                                                                                                                                                                                                             a
                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                        g
```

```
The invention relates to nucleic acid molecules encoding Interleukin 17 (IL-17)-like polypeptides. IL-17 DNA can be used to modulate the levels of IL-17)-like polypeptides. IL-17 protein is useful for treating, preventing or ameliorating a disease, such as immune system dysfunction (rheumatoid arthritis, osteoarthritis, inflammatory joint disease); autoimmune (multiple sclerosis, lupus, diabetes, inflammatory bowel disease, transplant rejection, graft vs. host disease); infections (HIV, chepatitis, bacterial); weight disorders (obesity, anorexia, cachexia, sepsis); neuronal dysfunction (Alzheimer's, Parkinson's disease); lung (acute respiratory distress syndrome, cystic fibrosis, emphysema); skin (psoriasis, eczema, wound healing); kidney (glomerulonephritis); bone (osteoporosis, heart failure, anglogenesis); tumours, cancers (lymphoma leukaemia); reproductive (infertility, miscartiage, endometriosis), eye (blindness, retinal neuropathy) and treatment of diseases involving inflammation. The present sequence is mouse Interleukin-17 like (IL-17L)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mouse; murine; interleukin 174; IL-174; cytokine; Th2 response; innate immune response; inflammation; gut cell growth; extramedullary haematopoiesis; antibody response; granuloma formation; autoimmune condition; multiple sclerosis; systemic lupus erythematosus; rheumatoid arthritis; diabetes; psoriasis; infectious agent; inflammatory condition; Crohn's disease; ulcerative collitis; pancreatitis; hepatitis; allergy; Th2-mediated condition; systemic anaphylactic response; skin hypersensitivity response; dermatitis; asthma; fibrosis; eosinophilic gastritis; immunomodulator; antiinflammatory; antiarthritic; antidiabetic; antidungal; dermatological; neuroprotective; antiallergic; agonist; antagonist.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 MYQVVAFLAMVMGTHTY-----SHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPN 52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     53 RHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRG
polypeptides useful in the treatment, prevention and diagnosis of diseases e.g. cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 169;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          113 NSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVM 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121 NSVPLYHNQTVFYRRPCHGEEGTHRRYCLERRLYRVSLACVCVRPRVM 168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ouery Match 77.9%; Score 709; DB 23; Best Local Similarity 76.8%; Pred. No. 2.7e-65; Matches 129; Conservative 9; Mismatches 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1..16
/label= Signal_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               17.169
/label- Mature_IL-174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Murine interleukin 174 (IL-174).
                                                                                                               Claim 13; Fig 2; 242pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAM52692 standard; Protein; 169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    169 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    26-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 13
```

WO200179288-A2

us-10-037-591a-2.rag

glomerulonephritis;

anorexia; cachexia;

```
31-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                            Medlock E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 15
AAB07599
දු
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 õ
                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to methods of directing an immune response in a mammal by the administration of an agonist or antagonist of the cytokine interleukin 174 (IL-174). Administration of an IL-174 agonist directs the immune response towards a T12 response, stimulates an innate immune response, augments the inflammatory response from epithelial or fibroblast cells, induces gut cell growth, promotes extramedullary haematopotesis, or augments an antibody response in serum and faecal material, while administration of an IL-174 antagonist directs the immune response away from a T12 type response, and prevents inflammation or granuloma formation. IL-174 agonists may be used to treat autoimmune conditions (particularly multiple sclerosis, systemic lupus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mouse; interleukin-17 like; IL-17L; immune system dysfunction; diabetes; cytostatic; multiple sclerosis; rheumatoid arthritis; therapy; lupus; inflammatory bowel disease; neuronal dysfunction; transplant rejection; autoimmune disorder; lung; skin; kidney; bone; eye; vascular system;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              erythematosus, rheumatoid arthritis, diabetes or psoriasis), a response to an infectious agent, or inflammatory conditions such as crohn's disease, ulcerative collitis, pancreatitis, or hepatitis. IL-174 antagonists may be used to treat inflammatory, allergic or Th2-mediated conditions (e.g., systemic anaphylactic response, skin hypersensitivity response, dermatitis, asthma, fibrosis, or eosinophilic gastritis). The present sequence represents murine IL-174.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 HHAESCRASKDGPLNSRAISPWSYELDRDLNRVPQDLYHARCLCPHCVSLQTGSHMDPLG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRG 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 MYQVVAFLAMVMGTHTY----SHWPSCCPSKGODTSEELLRWSTVPVPPLEPARPN 52
                                                                                                                                                                                                                                                                                           regulates various immune and inflammatory responses and is useful treat for example autoimmune diseases, allergies or response to an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mouse non-secreted form of Interleukin-17 like (IL-17L) protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .
60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 709; DB 23; Length 169; Pred. No. 2.7e-65;
                                                                                                                                                                                                                                                                         Administering an interleukin 174 agonist or antagonist to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVM 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121 NSVPLYHNQTVFYRRPCHGEEGTHRRYCLERRLYRVSLACVCVRPRVM 168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9; Mismatches
                                                                                                                                                                          Rennick DM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAE18122 standard; Protein; 160 AA.
                                                                                                                                                                                                                                                                                                                                                                       Examples; Page 29; 29pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               77.9%;
76.8%;
                                                     17-APR-2001; 2001WO-US12493
                                                                                          18-APR-2000; 2000US-198488P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches 129; Conservative
                                                                                                                                                                          Zurawski SM,
                                                                                                                                 (SCHE ) SCHERING CORP
                                                                                                                                                                                                                 2002-034343/04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          169 AA;
                                                                                                                                                                                                                                 N-PSDB; ABA02394.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          07-MAY-2002
                25-OCT-2001.
                                                                                                                                                                          Hurst SD,
                                                                                                                                                                                                                                                                                                                                  infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAE18122;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAE18122
```

셤 ٥. g ò g

à

```
The invention relates to nucleic acid molecules encoding Interleukin 17 (IL-17)-like polypeptides. IL-17 DNA can be used to modulate the levels of IL-17 protein is useful for treating, preventing or ameliorating a disease, such as immune system dysfunction theumatoid arthritis, osteoarthritis, inflammatory joint disease); autoimmune (multiple sclerosis, lupus, diabetes, inflammatory bowel disease, transplant rejection, graft vs. nost disease); infections (HIV, hepatitis, bacterial); weight disorders (obestry, anorexia, cachexia, sepsis); neuronal dysfunction (Alzheimer's, Parkinson's disease); lung (acute respiratory distress syndrome, cystic fibrosis, emphysema); skin (psoriasis, eczema, wound healing); kidney (glomerulonephritis); bone (osteoporosis, Paget's disease, hypercalcaemia) vascular system (epilepsy atherosclerosis, heart failure, anglogenesis); tumours, cancers (lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     leukaemia); reproductive (infertility, miscarriage, endometriosis), dynours, cancers (lymphom (blindness, retinal neuropathy) and treatment of diseases involving inflammation. The present sequence is non-secreted form of mouse Note: The present sequence is non-secreted form of mouse Note: The present sequence is non-secreted form of mouse note: The present sequence is non-secreted form of mouse note: The present sequence is non-secreted form of mouse note: The present sequence is non-secreted form of mouse note: The present sequence is non-secreted form of mouse note: The present sequence is non-secreted form of mouse note: The present sequence is non-secreted form of mouse note: The present sequence is non-secreted form of mouse note: The present sequence is non-secreted form of mouse note: The present sequence is non-secreted form of mouse note: The present sequence is non-secreted form of mouse note: The present sequence is non-secreted form of mouse note: The present sequence is non-secreted form of mouse note: The present sequence is non-secreted form of mouse note: The present sequence is non-secreted form of mouse note: The present sequence note: The present note: T
cystic fibrosis; Alzheimer's disease; Parkinson's disease; emphysema; eczema; sepsis; psorlasis; wound healing; osteoporosis; Paget's disease; epilepsy; atherosclerosis; heart failure; angiogenesis; endometriosis;
                                                                                                                                      epilepsy; atherosclerosis; heart Ialiure; anyloyemesis, encommentation; leukaemia; retinal neuropathy; infertility; miscarriage; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQ 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10 MVMGTHTY-----SHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRAS 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Nucleic acid molecules encoding Interleukin 17 (IL-17) - like polypeptides useful in the treatment, prevention and diagnosis of diseases e.g. cancer -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present sequence also shown in sequence listing of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ..
8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nguyen HQ, Jing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 160;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   specification lacks a residue at the C terminal end.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 670; DB 23;
Pred. No. 2.7e-61;
9; Mismatches 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVM 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Silbiger SM, Elliot GS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 13; Fig 2; 242pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 73.6%;
Best Local Similarity 76.1%;
Matches 121; Conservative 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 22-JUN-2000; 2000US-213125P. 02-FEB-2001; 2001US-266159P. 16-MAR-2001; 2001US-0810384.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21-JUN-2001; 2001WO-US19861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2002-155217/20.
N-PSDB; AAD28773.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Yeh R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   160 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (AMGE-) AMGEN INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200208285-A2.
                                                                                                                                                                                                                                                                                                                                                                                    Mus musculus.
```

```
The present sequence represents an interleukin-174 (IL-174) polypeptide. The polypeptide is an IL-17-like (CTLA-8 related) protein. It is a member of a new group of interleukins, IL-170 polypeptides. The members comprise IL-172, IL-173, IL-174, IL-177, and IL-171. IL-170 protein can be used to treat abnormal proliferation e.g. cancer or degenerative conditions. Antibodies can be used in diagnostic methods to detect over production of IL-170 protein in cells or body
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New isolated polynucleotide encoding a mammalian Interleukin-17 like protein used to identify genes for homologous proteins -
                                                                                                                                                                                         Interleukin; IL-17; CTLA-8; IL-170; IL-172; IL-173; IL-174; IL-176;
IL-177; IL-171; cell proliferation; cancer.
                                                                                                                                           A murine interleukin (IL) 174 polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Kastelein RA;
AAB07599 standard; Protein; 144 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 11; Page 17; 111pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                      10-JAN-2000; 2000WO-US00006
                                                                                                                                                                                                                                                                                                                                                                                                                                                       99US-0228822
                                                                                               07-NOV-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bazan JF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (SCHE ) SCHERING CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2000-466130/40.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        N-PSDB; AAA58987
                                                                                                                                                                                                                                                                                                          WO200042188-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                     11-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                        20-JUL-2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gorman DM,
                                                AAB07599;
                                                                                                                                                                                                                                                                Mus sp.
```

43 VPP--LEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCV 100 SLQTGSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRP 157 101 δ. qq ΘŽ g

Gaps

2.

Score 351.5; DB 21; Length 144; Pred. No. 2e-28; 6; Mismatches 36; Indels 5;

; 9

Query Match 38.6%; Best Local Similarity 59.8%; Matches 70; Conservative 6

144 AA;

Seguence

Search completed: May 12, 2003, 01:59:02 Job time : 45 secs

GenCore version 5.1.4_p5_4578 Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model	May 12, 2003, 00:49:29 ; Search time 1520 Seconds (without alignments) 12330.399 Million cell updates/sec	US-10-037-591A-1 644 1 ctcaagtcactccctaaaaaggccccgtgtgatgggctag 644	IDENTITY_NUC Gapop 10.0, Gapext 1.0
OM nucleic -	Run on:	Title: Perfect score: Sequence:	Scoring table:

ies	18: 4109280		
Searched: 2054640 seqs, 14551402878 residues	Total number of hits satisfying chosen parameters	Minimum DB seq length: 0 Maximum DB seq length: 200000000	Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

	-		•						٠						••				:	. •	٠.		-,	-																
es																																								
g first 45 summaries	#: #	Ja:*	ntg:*	in:*	*: [[0]	*: ^	oat:*	oh:*	01:*	pr:*	gb_ro:*	sts:*	gb_sy:*	-nu:*	_vi:*	_ba:*	_fun:*	_hum:*	em_in:*	em_mu:*	em_om:*	em_or:*	em_ov:*	em_pat:*	em_ph:*	em_pl:*	em_ro:*	em_sts:*	em_un:*	em_nrg_num:*	en_nrg_rnv:*	em_nrg_orner:* em_btg_mns:*	em hta plo.*	em_htg_rod:*	em htg mam: *	em_htg_vrt:*	.sy:*	em_htgo_hum:*	_htgo_mus:*	em_htgo_other:*
Listing	GenEmbl	1: qb_1	2: qb	3: qb_in:	4: ab	5: qb_c	9: db	7: qb	8: gb_pl:	ъ 	10: gb										_											33.		_				Ī	40: em_	-
	Database :								•									ŧ														-								

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

- dG	Description	AX253225	AX365242	AX299773	AXU92424 AX164145	AX180768	AF305200	AF458059	AX365244 AX365250	AX299775 Sequence	AF458060	Arostobs Mus r AL132855 Human	AL049829 Human	AC130940 Rattus AC119293 Rattus	AC116673 Mus mus	AC119293 R AC115371 R	AX427978 S	AX180766 Sequence	AX3/0380 3 A£152099 H	AF142410 H	AAZZSS49 Sequence AF458061 Mus mus	AF429315 Homo sapi	AX180787 Se	AC128380 Rattus no	AF429515 Homo	ALLUMASS MUS MUSC AF480884 Chimpan	E32946 Gene	AF218727 Human AF218727 Homo s	AX047648 Sequence	AX055448 Se	AX464312 Sequenc	AF152098 Homo	AF184969 HOMO	: I			DNA linear PAT 05-OCT-2001		•		Craniata; Vertebrata; Euteleostomi Catarrhini; Hominidae; Homo.	lqer,S.M., Elliot,G.S. an	+
SUMMARIES	dt 	AX253225	AX365242	AX299773	AXU92424 AX164145	AX180768	AF305200	AF458059	AX365244 AX365250	AX299775	AF458060	AYUS4UBB CNS01DTR	CNSOOOB	AC130940 AC119293	AC116673	AC119293 AC115371	AX427978	AX180766	AF152099	AF142410	AF458061	AF429315	AX180787	AC128380	AF429315	AF480884	E32986	AL58380/ AF218727	AX047648	AX055448	AX464312	AF152098	AF184969 AF110385	AF212311	AT, TGNMENTS		644 bp ent WO0168705				Chordata; Crar Primates; Cata	Yeh, R., Silbiqer	٥٥
a C	n:										0	_	000								0		>			-											Pate	59863				⊕ ⊕ ``	
Tenath	rengtn	644	644	504	1320	1320	1335	486	1496	985	985	407	196292	145762	170032	160950	591	1047	1047	1078	585	125020	45	153500	125020	241087	10732	925U/ 684	687	687	687	687	203	711			2 from Patent	_		su	Metazoa Eutheria	s 1 to 644) Medlock, E.	H.Q.
% Query Match	Match	00.00	0.0	9.0	1 m	ω.	. A	4.0	20	20.	0.0		30.00	9.9	8.	ω α π α	4.	₹.<	. 4.	7.	* 4	7	10	0.0	<u>ه</u> د	9	ι, n	U 4.	4	4	* 4	4.	4. 4	4			~	AX253225 AX253225.1		an. o sapiens	yota lia;	(bases	H.(e
Score	COL	644	644	4 5	u u	78	78	4.0	336.2	3.5	33	256		196.8	40,	121	100	mr	າຕ	e c	ე [∼	47.6	`	4 (43.6	4 (7		41.8	~ •			н,	41.4	41.4					٠,				Nguy
Result	· ON			ν) τ	4 rc	φ	7	ω α	10	11	12	1 4	15		C 118	0 T 0	101	22	25.2	25	27	28	30	m	0 33 33	c 34	32	37	38	200	41	42	4 4 4 4	45		RESULT 1 AX253225	LOCUS	ACCESSION	KEYWORDS	SOURCE		REFERENCE AUTHORS	ጥተሞር

~

```
144
                                                                                                                                                                                                                                             Query Match
Best Local S
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                  BASE COUNT
ORIGIN
                                           REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                    61
                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             541
                                                                     TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          481
                                                                                                                                                                                                                                                                                                                                    61
                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                             241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              541
                                                                                                                                   CDS
                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a
                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                       ŏ
                                                                                                                                                                                                                                                                                                                                                                       П
                                                                                                                                                                                                                                                                                                                                                                                         δ
                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                             /translation="MYQVVAFLAMVMGTHTVSHWPSCCPSKGODTSEELLRWSTVPVP
PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSL
QTGSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15-FEB-2002
                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                    540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             900
                                                                                                                                                                                                                                     GAAAATAAAATCAGGACTCCTAACCTGCTCCAGTCAGCCTGCTTCCACGAGGCCTGTCAG 120
                                                                                                                                                                                                                                             TCAGTGCCCCACTTGTGAGTGAGTGTGCAGTGCCCAGCATGTACCAGGTGGTTGCATTCT 180
                                                                                                                                                                                                                                                                                         TCAGTGCCCCACTTGTGACTGAGTGTGCAGTGCCCAGCATGTACCAGGTGGTTGCATTCT 180
                                                                                                                                                                                                                                                                                                                                                       CTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCAGTGAAGATGGACCCCTCAACA 360
                                                                                                                                                                                                                                                                                                                                                                                           GCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTGAACCGGCTCCCCCAGG 420
                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                 CTCAAGTCACTCCCTAAAAAGACAGTGGAAATAAATTTGAATAAACAAAACAGGCTTGCT 60
                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CATGCCATGGCGAGAAGGGCACACAAGGGCTACTGCCTGGAGCGCAGGCTGTACCGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAGCGCAGGCTGTACCGTG
                                                                                                                                                                                                           TGGCAATGGTCATGGGAACCCACACCTACAGCCACTGGCCCAGCTGCTGCCCCAGCAAAG
                                                                                                                                                                                                                                                                                                                                              GGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCTGTGCCTCCCCTAGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PAT
                                                                                                                                                                                ó
                                                                                                                                                             Length 644;
                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%; Score 644; DB 6; L
ilarity 100.0%; Pred. No. 6.3e-149;
Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TTTCCTTAGCTTGTGTGTGTGCGGCCCCGTGTGATGGGCTAG
                        DNA
WO 0168705-A 22 20-SEP-2001; ic. (US)
                                                                                                                                    123
                                                                     /codon_start=1
/protein_id="CAC93840.1"
/db_xref="G1:15986363"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AX365242 644 bp
Sequence 1 from Patent W00208285
AX365242 GI:18696995
                 Location/Qualifiers
                                                                                                                                    б
                                                                                                                                    173
                                                                                                                                    ပ
                                                                                                                                    204
                                                                                                                                                                        Similarity
         Amgen Inc
 Patent:
                                                                                                                                    144
                                                                                                                                                                        Best Local Sim
Màtches 644;
                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DEFINITION
ACCESSION
VERSION
                                                                                                                                    COUNT
                                                                                                                                                                                                                                      61
                                                                                                                                                                                                                                                      61
                                                                                                                                                                                                                                                                        121
                                                                                                                                                                                                                                                                                         121
                                                                                                                                                                                                                                                                                                                            181
                                                                                                                                                                                                                                                                                                                                              241
                                                                                                                                                                                                                                                                                                                                                                241
                                                                                                                                                                                                                                                                                                                                                                                                                     361
                                                                                                                                                                                                                                                                                                                                                                                                                                                       421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              541
                                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                                                                                                                                                                     361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 601
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 2
AX365242
LOCUS
                                                    CDS
                  FEATURES
                                                                                                                                   BASE CO
                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                               a
                                                                                                                                                                                                                                                                                                                                                                                                                'nδ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                  ò
                                                                                                                                                                                                                   a
                                                                                                                                                                                                                                     õ
                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
```

```
/codon_start=1
/protein_id="cAD23795.1"
/protein_id="CAD23795.1"
/protein_id="CAD23795.1"
/protein_id="cgi:18696996"
/translation="KYQVVAFLAMYMGTHTYSHWPSCCPSKGODTSEELLRWSTVPVP
PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPGOLYHARCLCPHCVSL
OGGSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVM
                                                                                                                                                                                                                                                                                                                                                                                                                         ö
           Chordata; Craniata; Vertebrata; Euteleostomi;
Primates; Catarrhini; Hominidae; Homo.
                                                         and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GAAAATAAAATCAGGACTCCTAACCTGCTCCAGGCCTGCTTCCACGAGGCCTGTCAG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                         Medlock, E., Yeh, R., Silbiger, S.M., Elliot, G.S., Nguyen, H.Q.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241 GGCAGGACACCTCTGAGGAGCTGCTGAGGAGCAGCACGAGCACGTGTGCCTCTGTCCCCTAGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCAGTGAAGATGGACCCCTCAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCAGTGCCCCACTTGTGACTGAGTGTGCAGTGCCCAGCATGTACCAGGTGGTTGCATTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTGAACCGGCTCCCCCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CATGCCATGCCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAGCGCAGGCTGTACCGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTCAAGTCACTCCCTAAAAAGACAGTGGAAATAAATTTGAATAAACAAAACAAAACGCCTTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCTGTGCCTCCCCTAGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                          Length 644;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         644
                                                                                                                                                                                                                                                                                                                                                                                          Score 644; DB 6; I
Pred. No. 6.3e-149;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TTTCCTTAGCTTGTGTGTGTGCGGCCCCGTGTGATGGGCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                product"
                                                                                                                                                                                                                                                                                                                                                                                                                         0; Mismatches
                                                                                                                                                                                                                                                                                                                                              123
                                                                                        uses thereof
A 1 31-JAN-2002;
                                                                                                                                                                 /organism="Homo sapiens'/db_xref="taxon:9606"
159. 644
/note="unnamed protein p
                                                                                                                                     Location/Qualifiers
1. .644
                                                                                                                                                                                                                                                                                                                                            173 g
                                                                          Jing, S.
Il-17 molecules and use:
Patent: WO 0208285-A 1
                                                                                                                                                                                                                                                                                                                                                                                          Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 644; Conservative 0;
Homo sapiens
Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                               ပ
                                                                                                                                                                                                                                                                                                                                              204
                                                                                                                          Amgen, Inc. (US)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δ
```

m

g

```
PAT 21-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                              Secreted and transmembrane polypeptides and nucleic acids encoding the same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCACCAGAGTCCTGTAGGGCCAGTGAA 344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GATGGACCCTCAACAGCAGGCCATCTCCCCTGGAGATATGAGTTCGACAGAGACTTG 404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               524
                                                                                                                                                                                                                                                                                                                                                                                                                                              165 CAGGIGGIIGCAIICIIGGCAAIGGICAIGGGAACCCACACCIACAGCCACTGGCCCAGC 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCT 284
                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PAT 22-Jr
                                                                                                                                                                                                                       oddard, A.,
Watanabe, C.K. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAGACAGGCTCCCACATGGACCCCGGGGCCAACTCGGAGCTGCTCTACCACAACCAGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTCTTCTACCGGCGGCCATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAG
                                                                                                                                                                                   Eute1
                                                                                                                                                                                                                                                                                                                                                                                                                       0;
                                                                                                                                                                                                                                                                                                                                                                                              Length 1320
                                                                                                                                                                                Craniata; Vertebrata; E
Catarrhini; Hominidae;
                                                                                              linear
                                                                                                                                                                                                                     Goddard,
                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         linear
                                                                                                                                                                  Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Ver'
Mammala; Eutheria, Primates; Catarrhini; Hi
(Dases 1 to 1320)
Eaton, D.L., Filvaroff, E., Gerritsen, M.E., G
Godowski, P.J., Grimaldi, C.J., Gurney, A.L.,
                                                                                                                                                                                                                                                                                                                                                                                            Score 478.4; DB 6;
Pred. No. 6.6e-108;
0; Mismatches 1;
                                                                                              DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA
                                                                                                                                                                                                                                                                                                                                                            ų
                                                                                                                                                                                                                                                                                 WO 0116318-A 155 08-MAR-2001,
                                                                                          1320 bp C Sequence 155 from Patent W00116318. AX092424.1 GI:13444526
                                                                                                                                                                                                                                                                                                                                                          303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 17 from Patent W00140465. AX164145
                                                                                                                                                                                                                                                                                                                             /organism="Homo sapiens"
/db_xref="taxon:9606"
353 c 384 q 303
                                                                                                                                                                                                                                                                                              Location/Qualifiers
         644
                     620 TGTGCGGCCCCGTGTGATGGGCTAG
                                                                                                                                                                                                                                                                                                                                                                                             Query Match 74.3%;
Best Local Similarity 99.8%;
Matches 479; Conservative
                                                                                                                                                                                                                                                                                                                     .1320
                                                                                                                                                                                                                                                                                              Genentech,
                                                                                                                                                                                                                                                                                                                                                            æ
                                                                                                                                                                                                                                           Wood, W.I
                                                                                                                                                                                                                                                                                  Patent:
                                                                                                                                                         human.
                                                                                                                                            KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LOCUS
DEFINITION
ACCESSION
                                                                                                        DEFINITION
                                                                                                                    ACCESSION
VERSION
                                                                                                                                                                                                       REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                         BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                585
                                                                                                                                                                                                                                                                                 JOURNAL
                                                                    RESULT 4
AX092424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 5
AX164145
                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                       TITLE
                                                                                                                                                                                                                                                                                                                                                                      ORIGIN
                                                                                            LOCUS
                            g
         å
                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                   /translation="MYQVVAFILAMYMGTHTYSHWPSCCPSKGODTSEELLRWSTVPVP
PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPODLYHRRCLCPHCVSL
OTGSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVM
                                                                 PAT 26-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCTGCTGAGGTGGAGCACTGTGCCTGTGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCA 319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           120 GCTGCTGAGGTGGAGCACTGTGCCTGTGCCTCCCTAGAGCCTGCTAGGCCCCAACCGCCA 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCCAGAGTCCTGTAGGGCCAGTGAAGATGGACCCCTCAACAGCAGGGCCATCTCCCCCTG 379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCTGTGCCCGCACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCCCGGGGCAACTC 499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGAGTGTGCAGCAGCATGTACCAGGTGGTTGCATTCTTGGCAATGGTCATGGGAAC 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGGCCATGCCATGGCGAGAAGGG 559
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           7;
                                                                                                                                                                                                                                                                               sednence"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 493; DB 6; Length 504;
Pred. No. 1.6e-111;
); Mismatches 0; Indels
                                                                 linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
      644
                                                                                                                                                                                                                                                 /organism="unidentified"
/db_xref="taxon:32644"
/note="primate IL-174 polynucleotide
601 TTTCCTTAGCTTGTGTGTGTGCGGCCCCGTGTGATGGGCTAG
                                                                                                                                                                        Hurst, S.D., Zurawski, S.M. and Rennick, D.M. Cytokine uses; compositions; methods Patent: WO 0179288-A 1 25-OCT-2001; SCHERING CORPORATION (US)
                                                                                                                                                                                                                                                                                      19. .504
/note="unnamed protein product"
                                                                   DNA
                                                                                                                                                                                                                                                                                                                                                                                                                               93
                                                                                                                                                                                                                                                                                                                           /protein_id="CAD12718.1"
/db_xref="G1:17129295"
                                                            AX299773 504 bp
Sequence 1 from Patent WO0179288
AX299773
                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                               /product="unnamed"
165 c 148 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ..
                                                                                                 AX299773.1 GI:17129294
                                                                                                                                                                                                                                                                                                                 /codon_start-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 99.8%;
Matches 504; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                      .501
                                                                                                                                      unidentified unclassified.
                                                                                                                           unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                            86
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local (
                                                                                                                                                                                                                                         source
                                                                          DEFINITION
                                                                                                                                       ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                           COUNT
                                                                                                                                                                        AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            360
                                                                                     ACCESSION
                                                                                                 VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           300
                                    RESULT 3
AX299773
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    200
                                                                                                                                                              REFERENCE
                                                                                                                                                                                                 JOURNAL
                                                                                                                                                                                                                           EEATURES
                                                                                                                                                                                                                                                                                       CDS
                                                                                                                                                                                                                                                                                                                                                                                                                           BASE CO
ORIGIN
```

a ò

õ g ò 셤 ò g ò a ò g ð 셤 ò 셤 JN-2001

Mon

```
/codon_start=1
/product="1125"
/protein_id="AAL57622_1"
/brotein_id="AAL57622_1"
/db_xref="G1:18034676"
/db_xref="G1:18034676"
/translation="MYQVAFLAMYMGTHTYSHWPSCCPSKGODTSEELLRWSTVPVP
PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPGOLYHARCLCPHCVSL
QTGSHMOPRORNSELLYHNQTYPYRRPCHGEKGTHKGYCLERRLYROSLACVCVRPRVM
                                                                                          Kwan, S. D., Muchamuel, T., Gorman, D.M., Gilbert, J.M., Clifford, T., Kwan, S., Menon, S., Seymour, B., Jackson, C., Kung, T., Brieland, J., Zurawski, S.M., Chapman, R., Zurawski, G. and Coffman, R.L. New IL-17 family members promote Thi or Th2 responses in the lung: In vivo function of the novel cytokine IL-25 Groundished
       Rennick, D.M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGTGAAGATGGACCCCTCAACAGCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGA 398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         399 GACTIGAACCGGCICCCCCAGGACCIGIACCACGCCCGITGCCTGTGCCCGCACTGCGIC 458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAGACTGTCTTCTACCGGCGGCCATGCCATGGCGAGAGGGCACCCACAAGGGCTACTGC 578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        159 ATGTACCAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACCTACAGUCACTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CCCAGCTGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GACTTGAACCGCTCCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GTGCCTGTGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   459 AGCCTACAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ;
0
      S.D., Zurawski,G., Leach,M.W., Gorman,D.M. and Reinduces IL-4, IL-5, and IL-13 and Th2-associated
                                                                                                                                                                                                     3 (bases 1 to 486)
Gilbert, J.M. and Gorman, D.M.
Direct Submission Submitted (12-DEC-2001) Genomics, DNAX Research Inc., California Ave., Palo Alto, CA 94304, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 478; DB 9; L
Pred. No. 8.1e-108;
); Mismatches 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   83
                                                                                                                                                                                                                                                                                                              /organism="Homo sapiens"
/db_xref="taxon:9606"
1. .486
/note="cytokine"
                                         Immunity 15 (6), 985-995 (2001) 21629216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   б
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               74.2%;
99.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   υ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   162
                                                                                                                                                                                                                                                                                                  . 486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
    Hurst, S.I
IL-25 inc
in vivo
                                                                                 11754819
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GGCTAG 644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Simi
Matches 481;
                                                                                                                                                                                                                                                                                                  source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BASE COUNT
ORIGIN
                                                                               PUBMED
REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            339
                                                                                                                                                                                                                                                   JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         639
                                                                 MEDLINE
                                                                                                                                                                                                                     AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          421
                                                  JOURNAL
                                                                                                                                                                                                      REFERENCE
                                                                                                                                                                                     JOURNAL
                                                                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                        TITLE
                    TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                              /product="interleukin 17E"
/product="interleukin 17E"
/db_xref="d1:118791810"
/db_xref="d1:118791810"
/translation="MRRPREGEDSSLISLELQVVAFLAMVMGTHTYSHWPSCCPSKG
QDTSEELLRWSTVPVPPLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLP
QDLYHARCLOFHCVSLQTGSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERR
LEYRVGLACVCVPRPWG"
303 c 384 g 303 t
                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRI 15-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia; Eutheria; Primates, Catarrhini, Hominidae; Homo. 1 (bass 1 to 486)
Fort,M.M., Cheung,J., Yen,D., Li,J., Zurawski,S.M., Lo,S., Menon,S., Clifford,T., Hunte,B., Lesley,R., Muchamuel,T.,
                                                                                                                                                                                                                                                                                                                                                                                                                284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA 464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTCTTCTACCGGCGGCCATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAG 584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     792
                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                           225 TGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCT
                                                                                                                                                                                                                                                                                                                                                                                                CAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACCTACAGCCACTGGCCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GIGCCICCCTAGAGCCIGCTAGGCCCAACCGCCACCCAGAGICCIGIAGGGCCAGIGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CGCAGGCTGTACCGTGTTCCTTAGCTTGTGTGTGCGGCCCCGTGTGATGGCGCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GATGGACCCCTCAACAGCAGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                          Length 1335;
                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                linear
                                                                                                                                                                                                                                                                                                                                       Score 478.4; DB 9;
Pred. No. 6.6e-108;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              486 bp mRNA complete cds.
Francisco, CA 94080, USA Location/Qualifiers
                                                                                                                    259. .792
/gene="1L17E"
/note="1L-17E; cytokine"
/codon_start=1
                                          /organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="14"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens IL25 mRNA,
AF458059
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AF458059.1 GI:18034675
                                                                                                     /gene="IL17E"
259. .792
                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 99.8%;
Matches 479; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
Homo sapiens
 San
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AF458059
                                                                                                                                                                                                                                                                                         295
South
                                                                                                                                                                                                                                                                                      BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                  165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         613
                                                                                            gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    585
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 8
AF458059
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AUTHORS
              FEATURES
                                                                                                                                                                                                                                                                                                       ORIGIN
```

셤 ò

ã 유 õ g ò g ò q δ 쥠 ò g

q ð

g

```
Gaps 1;
                                                                                                                     15-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    134 TGTGACTGAGTGTGCAGTGCCCAGCATGTACCAGGTGGTTGCATTCTTGGCAATGGTCAT 193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              758
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  818
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           938
                                                                                                                                                                                                                                                                        Craniata; Vertebrata; Euteleosto
Sciurognathi; Muridae; Murinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           __Medlock, E., Yeh, R., Silbiger, S.M., Elliot, G.S., Nguyen, H.Q.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTACCGGCGGCCATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAGCGCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            194 GGGAACCCACACCTACAGC------CACTGGCCCAGCTGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     590 GCTGTACCGTGTTTCCTTAGCTTGTGTGTGTGCGGCCCCGTGTGATGGGCTAG 644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24;
                                                                                                                        PAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 1496;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                            linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 336.2; DB 6;
Pred. No. 1.1e-72;
0; Mismatches 88;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1. .1496
/organism="Mus musculus"
/db_xref="taxon:10090"
511. .>987
/note="unnamed protein product"
                                                                                                                            DNA
                                                                                                                                                                                                                                                                                                                                                                   Jing,S.
11-17 molecules and uses thereof
Patent: WO 0208285-A 9 31-JAN-2002;
Amgen, Inc. (US)
                                                                                                                            1496 bp
WO0208285.
                    510
                                                                                                                                                                                                                                                                            Chordata; C
Rodentia;
GIGITATION OF THE CONTROL OF THE CON
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                       Sequence 9 from Patent AX365250
                                                                                                                                                                                          AX365250.1 GI:18696999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          52.2%;
79.1%;
                                                                                                                                                                                                                                    house mouse.
Mus musculus
Eukaryota; Metazoa; (
                                                                                                                                                                                                                                                                                                   Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 52.2
Best Local Similarity 79.1
Matches 423; Conservative
                                                                                                                                AX365250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              347
                                                                                    RESULT 10
AX365250
LOCUS
DEFINITION
                                                                                                                                                                      ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             819
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         759
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               410
                                                                                                                                                                                                                                                                                                                         REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                     TITLE
JOURNAL
                        481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Qγ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /codon_start=1
/protein_id="CAD23796.1"
/protein_id="CAD23796.1"
/db_xref="G1:18696998"
/translation="MXQAVAELAMIYGTHTVS.LRIOBGCSHLPSCCPSKEOEPPEEWL
/translation="MXQAVAELAMIYGTHTVS.LRIOBGCSHLPSCCPSKEOEPPEEWL
KWSSASVSPPERLSHTHHAESCRASKGGPLNSRAISPWSYELDRDLNRVPQDLYHARC
LCPHCVSLQTGSHMDPLGNSVPLXHNQTVFYRRPCHGEEGTHRRYCLERRLYRVSLAC
                                                                                                            PAT 15-FEB-2002
                                                                                                                                                                                                                                         Mus musculus
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus
                                                                                                                                                                                                                                                                                                                         Medlock, E., Yeh, R., Silbiger, S.M., Elliot, G.S., Nguyen, H.Q. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     554
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATCCAGGAGGGCTGCAGTCACTTGCCCAGCTGCTGCCCCAGCAAGAGAGAAGAACCCCCG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CGTTGCCTGTGCCCGCACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCCCGGGGC 494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CGCCACCCAGAGTCCTGTAGGGCCAGTGAAGATGGACCCCTCAACAGCAGGGCCATCTCC 374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCCTGGAGATATGAGTTGGACAGAGACTTGAACCGGCTCCCCCAGGACCTGTACCACGCC 434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     495 AACTCGGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGCCATGCCATGGCGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              555 AAGGGCACCCACAAGGGCTACTGCCTGGAGCGCAGGCTGTACCGTGTTTCCTTAGCTTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  421 GAAGGTACCCATCGCCGCTACTTGGAGCGCAGGCTCTACCGAGTCTCCTTGGCTTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241 CCTTGGAGCTATGAGTTGGACAGGGACTTGAATCGGGTCCCCCAGGACCTGTACCACGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GAGGAGCTGCTGAGGTGGAGCACTGTGCCTGTGCCTCCCCTAGAGCCTGCTAGGCCCCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181 CACCACGCAGAATCCTGCAGGGCCAGCAAGGATGGCCCCTCAACAGCAGGGCCATCTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   159 ATGTACCAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACCTACAGC-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ------CACTGGCCCAGCTGCTGCCCCAGCAAAGGGCAGGACACCTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 1013;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 336.8; DB 6; Lengtur Pred. No. 7.7e-73;
                                                                                                                 linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /db_xref="taxon:10090"
1. .510
/note="unnamed protein.product"
                                                                                                               DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 52.3%; Score 336.8; Best Local Similarity 81.2%; Pred. No. 7.7e Matches 414; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                         Jung, S.
Il-17 molecules and uses thereof
Il-17 molecules and uses thereof
Patent: WO 0208285-A 3 31-JAN-2002,
Amgen, Inc. (US)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   221
                                                                                                                                                                                                                                                                                                                                                                                                                                                        1. .1013/
/organism="Mus musculus"
                                                                                                      Sequence 3 from Patent W00208285.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   615 GTGTGTGCGGCCCCGTGTGATGGGCTAG 644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   268 g
                                                                                                                                                                           AX365244.1 GI:18696997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             VCVRPRVMA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   297 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     æ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   227
                                                                                                                                                                                                                         house
           481 GCTTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                              source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BASE COUNT
ORIGIN
                                                                                                                                                                                                                                             ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               375
                                                                                                                                                                                                                                                                                                         REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                              JOURNAL
                                                                  RESULT 9
AX365244
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURES
                                                                                                                                                                                                                                                                                                                                                                        TITLE
```

õ ద ò , d à 名 ò 셤 ò g ð පු ò g à a ROD 15-JAN-2002

g

```
/translation="MYQAVAFLAMIVGTHTVSLRIQEGCSHLPSCCPSKEQEPPEEWL
KWSSASVSPPEDLSHTHHAECRASKOGPLNSRAISPWSYELFRDLNRYPODLYHARC
LCPHCVSLQTGSHMDPLGNSVPLYHNQTVFYRRPCHGEEGTHRRYCLERRLYRVSLAC
VCVRPRVMA"
                                                                                                                                                                                                                                              Mus musculus

Bukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae, Mus.

1 (bases 1 to 985)

Fort,M.M., Cheung,J., Yen,D., Li,J., Zurawski,S.M., Lo,S.,

Menon,S., CliffordT., Hunte,B., Leasley,R., Muchamuel,T.,

Menon,S., Clusawski,G., Leach,M.W., Gorman,D.M. and Rennick,D.M.

IL-25 induces IL-4, IL-5, and IL-13 and Th2-associated pathologies
                                                                                                                                                                                                                                                                                                                                                                                                                                                           (bases 1 to 985)

Hurst,S.D., Muchamuel,T., Gorman,D.M., Gilbert,J.M., Clifford,T.,
Kwan,S., Menon,S., Seymour,B., Jackson,C., Kung,Tr., Brieland,J.,
Zurawski,S.M., Chapman,R., Zurawski,G. and Coffman,R.L.
New IL-17 family members promote Thi or Th2 responses in the lung:
In vivo function of the novel cytokine IL-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61 ATCCAGGAGGCTGCAGTCACTTGCCCAGCTGCTGCCCCCAGCAAAACCCCCCG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GGCCACCCAGAGICCTGTAGGGCCAGIGAAGAIGGACCCCTCAACAGCAGGGCCAICICC 374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GAGGAGCTGCTGAGGTGGAGCACTGTGCCTGCTCCCCTAGAGCCTGCTAGACCCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATGTACCAGGCTGTTGCATTCTTGGCAATGATCGTGGGAACCCACACGCTCAGCTTGCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             159 ATGTACCAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACCTACAGC---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 985;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 335.2; DB 10;
Pred. No. 1.9e-72;
0; Mismatches 73;
                                                                                                                                 Mus musculus IL25 mRNA, complete cds.
AF458060
AF458060.1 GI:18034677
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNAX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Direct Submission
Submitted (12-DEC-2001) Genomics, DNAX
California Ave., Palo Alto, CA 94304,
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /product="1L25"
/protein_id="AAL57623.1"
/db_xref="G1:18034678"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /organism="Mus musculus"
                                           Immunity 15 (6), 985-995 (2001)
21629216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /db_xref="taxon:10090"
1. .510
                         GTGTGTGTGCGGCCCCGTGTGATGGGCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3 (bases 1 to 985)
Gilbert, J.M. and Gorman, D.M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  268 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /strain="C57BL/6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /note="cytokine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 52.0%;
Best Local Similarity 81.0%;
Matches 413; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                296 c
                                                                                                                                                                                                                                    Mus musculus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                             11754819
                                                                                                                                                                                                                                                                                                                                                                                            in vivo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    199
                                                                                                                                            LOCUS
DEFINITION
                                                                                                                                                                              ACCESSION
VERSION
                                                                                                                                                                                                                                                  ORGANISM
                         615
                                                                                                          RESULT 12
AF458060
                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                         PUBMED
PUBMED
REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                      REFERENCE
                                                                                                                                                                                                                                                                                                                        AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CDS
                                                                                                                                                                                                                                                                                                                                                                         TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE
                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /protein_d="Cad12719.1"
/db_xref="G1:17129297"
/db_xref="G1:17129297"
/tb_xref="G1:17129297"
/KWSGASVSPPEPLSHTHARESCRASKOGPLANSRA.SPWSYELDRDLARVPQDLYHARG
LCPHCVSLQTGSHMDPLGNSVPLYHNQTVFYRRPCHGEEGTHRRYCLERRLYRVSLAC
                                                                                                          26-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  159 ATGTACCAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACCTACAGC----- 212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATCCAGGAGGCTGCAGTCACTTGCCCAGCTGCTCCCCAGCAAAAAGACCCCCC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GAGGAGCTGCTGAGGTGGAGCACTGTGCCTGTCCCCTAGAGCCTGCTAGGCCCAAC 314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CGCCACCCAGAGTCCTGTAGGGCCAGTGAAGATGGACCCCTCAACAGGGGCCATCTCC 374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCCTGGAGATATGAGTTGGACAGACTTGAACCGGCTCCCCCAGGACCTGTACCACGCC 434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -----CACTGGCCCAGCTGCCCCCAGCAAAGGGCAGGACACCTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CGTTGCCTGTGCCCGCACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCCCGGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AACTCGGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGCGCATGCCATGGCGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAGGGCACCCACAAGGGCTACTGCCTGGAGCGCAGGCTGTACCGTGTTTCCTTAGCTTGT
                     993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     24;

    985
    /organism="unidentified"
    /db_xref="taxon:32644"
    /note="murine IL-174 polynucleotide sequence"

Length 985;
                                                                                                        linear
                                                                                                                                                                                                                                                                  Zurawski, S.M. and Rennick, D.M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 335.2; DB 6;
Pred. No. 1.9e-72;
); Mismatches 73;
                                                                                                                                                                                                                                                                                                                                                                                                                      1. 510
/note="unnamed protein product"
                                                                                                                                                                                                                                                                             Cytokine uses; compositions; methods Patent: WO 0179288-A 3 25-OCT-2001; SCHERING CORPORATION (US)
                                                                                                 985 bp
Sequence 3 from Patent WO0179288.
AX299775
                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             49. .507
/product="unnamed"
296 c 268 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                      AX299775.1 GI:17129296
                                                                                                                                                                                                                                                                                                                                                                                                                                                           /codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 52.0%;
Best Local Similarity 81.0%;
Matches 413; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VCVRPRVMA"
                                                                                                                                                                                                           unidentified
unclassified.
                                                                                                                                                                                          unidentified
                                                                                                                                                                                                                                                               Hurst, S.D.,
                                                                                                                                                                                                           ORGANISM
                 939
                                                                                                                    DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BASE COUNT
                                                                                                                                      ACCESSION
VERSION
                                                                                                                                                                                                                                                             AUTHORS
TITLE
                                                                    RESULT 11
AX299775
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           495
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                555
                                                                                                                                                                                                                                           REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       301
                                                                                                                                                                                                                                                                                               JOURNAL
                                                                                                                                                                       KEYWORDS
                                                                                                                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                                                         SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORIGIN
```

ò 임 å. <u>.</u> අ δ 9 à a ò g δ d ò 셤 ð

ä

ö

Gaps

; 0

Indels

70;

Mismatches

ö

```
369; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 14
CNS01DTR
  Matches
                           206
                                                                               997
                                                                                                                                                                                                                                                                   264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE
JOURNAL
                                                    24
                                                                                                                                  326
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOURCE
                                                                                                                                                                                                                                                                                                                      Dp
                                                                                                                                                                                                                                                                                                                                                  ŏ
                                                                                                                                                                                                                                                                                                                                                                           qq
                                                                                                                                                                                                                                                                                                                                                                                                     δλ
                                                                                                                                                                                                                                                                                                                                                                                                                              qq
                             οy
                                                    q
                                                                                οy
                                                                                                        q
                                                                                                                                    δ
                                                                                                                                                           g
                                                                                                                                                                                      ò
                                                                                                                                                                                                              g
                                                                                                                                                                                                                                         δ
                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                            δy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /translation="VSLRIQEGCSHLPSCCPSKEQEPPEEWLKWSSASVSPPEPLSHT
HHAESCRASKDGPLNSRAISPWSYELDRDLNRVPQDLYHARCLCPHCVSLQTGSHMDP
LGNSVPLYHNQTVFYRRPCHGEEGTHRHYCLERRLYRVSLACVCVRPRVMA"
                                                                                                                                                                                                                                                                                                                                                  bp mRNA linear ROD 03-DEC-2001
precursor, mRNA, partial cds.
                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  growth retardation,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Genentech, 1 DNA Way,
                                                                                                         484
                                                                                                                                                554
                                                                                                                                                             614
                                                                  241 CCTTGGAGCTATGAGTTGGACAGGGACTTGAATCGGGTCCCCCAGGACCTGTACCACGCT 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pan,G., French,D., Mao,W., Maruoka,M., Risser,P., Lee,J., Foster,J., Aggarwal,S., Nicholes,K., Guillet,S., Schow,P. and Gurney,A.L.
Forced expression of murine IL-17E induces gröwth retardation, jaundice, a Th2-biased response, and multiorgan inflammation i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2 (bases 1 to 462)
Pan,G., Mao,W., Maruoka,M., French,D., Risser,P., Lee,J.,
Foster,J., Aggarwal,S., Nicholes,K., Guillet,S., Schow,P. and
                                                                                                                                                AACTCGGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGGCCATGCCATGGCGAG
                                                                                                                                                                                                     AAGGGCACCCACAAGGGCTACTGCCTGGAGCGCAGGCTGTACCGTGTTTCCTTAGCTTGT
                                         CCCTGGAGATATGAGTTGGACAGAGACTTGAACCGGCTCCCCCAGGACCTGTACCACGCC
                                                                                             CGTTGCCTGTGCCCGCACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCCCGGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                462;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /product="interleukin 17E precursor"
/protein_id="AAK59816.1"
/db_xref="G1:17266280"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Direct Submission
Submitted (OB-MAY 2001) Molecular Biology,
South San Francisco, CA 94080, USA
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 327; DB 10;
Pred. No. 2e-70;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Immunol. 167 (11), 6559-6567 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        85 t

    459
    product="interleukin 17E"

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <1. 462
/note="IL-17E; cytokine"
/codon_start=1</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1. .462
/organism="Mus musculus"
/db_xref="taxon:10090"
                                                                                                                                                                                                                                                       644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /note="IL-17E; cytokine"
157 c 130 g <sup>E</sup>
                                                                                                                                                                                                                                                                    462
Mus musculus interleukin 17E |
AY034088
AY034088.1 GI:17266279
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mammalia; Eutheria; Rodentia;
1 (bases 1 to 462)
                                                                                                                                                                                                                                                       GTGTGTGTGCGGCCCCGTGTGATGGGCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               50.8%;
84.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                     Mus musculus.
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gurney, A.L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         æ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21571724
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11714825
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mice
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
AUTHORS
               181
                                                                                           135
                                                                                                                      301
                                                                                                                                                495
                                                                                                                                                                           361
                                                                                                                                                                                                    555
                                                                                                                                                                                                                             421
                                                                                                                                                                                                                                                                               481
                                                                                                                                                                                                                                                                                                                       RESULT 13
AY034088
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE JOURNAL
                                         375
                                                                                                                                                                                                                                                       615
                                                                                                                                                                                                                                                                                                                                                                           ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                         VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE
                                                                                                                                                                                                                                                                                                                                                   LOCUS
                                                                                                                    a
                                                                                                                                                ò
                                                                                                                                                                        g
                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                       ö
               셤
                                         ò
                                                                 g
                                                                                           ò
                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                              셤
```

```
Human chromosome 14 DNA sequence BAC C-2201G16 of library CalTech-D from chromosome 14 DNA sequence BAC C-2201G16 of library CalTech-D AL132855 AL132855.4 GI:13897280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Genoscope.

Direct Submission

Bulnett Submission

Submitted (26.APR-2001) Genoscope - Centre National de Sequencage :

BP 191 91006 EVRY cedex - FRANCE (E-mail : seqref@genoscope.cns.fr

- Web : www.genoscope.cns.fr)

On Apr 30, 2001 this sequence version replaced gi:12001727.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Eukaryota; Metazoa; Chordates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 157910)

1 (bases 1 to 157910)

Heilig,R., Petit,J.L., Vico,V., Dasilva,C., Robert,C., Wincker,P., Brottler,P., Cattolico,L., Barbe,V., Pelletier,E., Artiguenave,F., Gyapay,G., Saurin,W. and Weissenbach,J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   263
                                                                                                                                                                                                                                                                                                                                                                                                565
                                                                                                                                                                                                                                                                                                                                                                                                                                     383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            625
                                                                                                                                                                                                                                       445
                                                                                                                                                                                                                                                                                                                                    385
                                                                            325
                                     83
                                                                                                                                                                             144 ATCCTGCAGGGCCAGCAAGGATGGCCCCTCAACAGGAGGGCCATCTCTTTGGAGGTA
                                                                                                                                                                                                                                                            CTACAGCCACTGGCCCAGCTGCTGCCCCAGCAAAGGGCAGACACCTCTGAGGAGCTGCT
                                                                                                                                                          GTCCTGTAGGGCCAGTGAAGATGGACCCCTCAACAGCAGGGCCATCTCCCCCTGGAGATA
                                                                                                                                                                                                                                       386 TGAGTIGGACAGAGACTIGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTIGCCTGTG
                                                                                                                                                                                                                                                                                                                 446 CCCGCACTGCGTCAGGCTACAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GAGGTGGAGCACTGTGCCTGCTTGCCTTAGAGCCTGCTAGGCCCAACCGCCACAGA
                                         CTGCAGTCACTTGCCCAGCTGCCCCAGCAAAGAGCAAAGAACCCCCGGAGGAGTGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Center: Genoscope / Centre National de Sequencage
Center code: GS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Center code: GS
Web site: http://www.genoscope.cns.fr/
Contact: SeqRef@genoscope.cns.fr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (bases 1 to 157910)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  444 GCCCCGGGTCATGGCTTAG 462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             626 GCCCCGTGTGATGGGCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Unpublished
```

```
Genoscope.

Direct Submission
Submitted (21-MAY-2001) Genoscope - Centre National de Sequencage :
BP 191 91006 EVRY cedex - FRANCE (E-mail : segref@genoscope.cns.fr - Web : www.genoscope.cns.fr)
On Jun 3, 2000 this sequence version replaced gi:6138746.
                                                                                                                                          Hellig, R., Petit, J.L., Vico, V., Dasilva, C., Robert, C., Wincker, P., Brottier, P., Cattolico, L., Barbe, V., Pelletier, E., Artiguenave, F., Levy, M., Ekcheberg, R., Bruls, T., deBerardinis, V., Cruaud, C., Sqapay, G., Saurin, W. and Weissenbach, J. Sequencing of the human chromosome 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The following BAC sequence is oriented from the 17 to the SP6.end. Upstream BAC (overlapping the T7 end) : R-244E17
Downstream BAC (overlapping the SP6 end) : C-2201G16 (AC-ALJ32855)
                                                                                          Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Identified using the e-PCR software (G. Schuler)" 93580. .93808
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Schuler)"
                                                                                                           Catarrhini; Hominidae; Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Assembly program: Phrap, version 2.0
Quality coverage: 7.94x in Q20 bases; sum-of-contigs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Percentage of bases with a quality value >= 40 : 99
                                                                                                                                                                                                                                                                                                                                                                                                         Center: Genoscope / Centre National de Sequencage
Center code: GS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .
G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .
(6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Identified using the e-PCR software 82164. 82299 /note="matching EMBL:H79035 RHdb:RH78773
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Identified using the e-PCR software 80433. .80566 /note="matching EMBL:AA167748
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Web site: http://www.genoscope.cns.fr/
Contact: SegRef@genoscope.cns.fr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /organism="Homo sapiens"
/db_xref="taxon:9606"
                                                                         Homo sapiens
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
1 (bases 1 to 196292)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /clone="R-124D2"
/clone_lib="RPCI-11"
78259. .78398
                                                                                                                                                                                                                                                                                                                                                                                           ----- Genome Center
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Overall quality chart:
Range: bases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       dbsrs:srs69699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   dbsrs:srs68485
                   GI:8217859
                                                                                                                                                                                                                                                          (bases 1 to 196292)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RHdb: RH102162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RHdb: RH98727
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1909
5193
18093
58972
111256
                                                                                                                                                                                                                                         Unpublished
 AL049829
AL049829.4
                                                       human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Range
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           200
200
200
200
200
200
300
300
                                                     SOURCE
ORGANISM
ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                       TITLE
JOURNAL
REFERENCE
                                                                                                                                                                                                                                                                           AUTHORS
TITLE
JOURNAL
                                                                                                                             REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                        COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CNS0000B 196292 bp DNA linear PRI 22-MAY-2001 Human chromosome 14 DNA sequence BAC R-124D2 of library RPCI-11 from chromosome 14 of Homo sapiens (Human), complete sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9616 GTTGGACAGAGACTTGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCC 9675
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9736 CTACCACAACCAGACTGTCTTCTACCGGCGGCCATGCCATGGCGAGAAGGCCACAAA 9795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9735
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          509 CTACCACAACCAGACTGTCTTCTACCGGCGGCCATGCCATGGCGAGAGGGCACCCACAA 568
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          389 GTTGGACAGAGACTTGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCC 448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9676 GCACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 449 GCACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCCCGGGGCCAACTCGGAGCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Identified using the e-PCR software (G. Schuler)" 57409. .57527
/note="matching EMBL:X52889
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      dbsrs:srs7881
Identified using the e-FCR software (G. Schuler)"
a 37198 c 39593 g 41638 t 2 others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      dentified using the e-PCR software (G. Schuler)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                39.8%; Score 256; DB 9; Length 157910; 100.0%; Pred. No. 8.7e-53; Live 0; Mismatches 0; Indels 0;
                                                                                                                                                                                                                                                                                             Percentage of bases with a quality value >= 40 : 99
                                                                                                                                                                                                                                                                                                                                                                                                                                         3550. .13694
'note-"matching EMBL:AA452257
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16758. .46857
/note="matching EMBL:N91549
                                                                                                                                                                                                                                                                                                                                               /organism="Homo sapiens'
/db_xref="taxon:9606"
/chromosome="14"
                                                                                                                                                                                                                                                                                                                                                                                                                            clone_lib="CalTech-D"
                                                                                                                                                                                                                                                                                                                ocation/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                         'clone="C-2201G16"
                                Overall quality chart :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     dbsrs:srs65422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              dbSTS:STS53407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RHdb: RH96140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RHdb: RH92419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3Hdb: RH763
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9856 CCGTGTGATGGGCTAG 9871
                                                                                                                                                                                                                   24066
56139
55936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches 256; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCGTGTGATGGGCTAG 644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            39479 a
                                                                                                                                                                                                                                       - 89
                                                     Range
                                                                                                                                            1
                                                                                                                                                                               1 1 1
                                                                                                         100
200
300
500
600
800
900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 15
CNSO000B
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           629
                                                                                                                                                                                                                                                                                                                                                                                                                                             STS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STS
                                                                                                                                                                                                                                                                                                              FEATURES
```

ð

ρp

g

g ò

ò

g

à

```
dentified using the e-PCR software (G. Schuler)" 38568. 138677 note-"matching EMBL:M78946
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               dentified using the e-PCR software (G. Schuler)" 38568. 138647
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          dentified using the e-PCR software (G. Schuler)" 38805. .138926
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               dentified using the e-PCR software (G. Schuler)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            dentified using the e-PCR software (G. Schuler)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KHdb:RH76320
dbSTS:STS53407
Identified using the e-PCR software (G. Schuler)"
a 45673 c 47123 g 52626 t
                                                                                                                                                                                                                                                                                                                                                    dentified using the e-PCR software (G. Schuler)"
28419. .128543
note="matching EMBL:R87257
                                                                                                                                                                                                                                                                                                                                                                                                                                                       dentified using the e-PCR software (G. Schuler)" 38462. 138738
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DSTS:STS42930
Identified using the e-PCR software (G. Schuler)"
138509. .138658
                                                                                                                                                                                                                                                 Identified using the e-PCR software (G. Schuler)"
128387. 128525
Anote="matching EMBL:H22648
RH53520
                                                       dentified using the e-PCR software (G. Schuler)"
                                                                                                                                                dentified using the e-PCR software (G. Schuler)"
07996. 108181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match 39.8%; Score 256; DB 9; Length 196292; Best Local Similarity 100.0%; Pred. No. 8.8e-53; Matches 256; Conservative 0; Mismatches 0; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    note-"matching EMBL: AA452257
/note-"matching EMBL:AA007328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 194804. .194903
/note="matching EMBL:N91549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    note="matching EMBL:M78986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   note="matching EMBL: H72023
                                                                                            /note="matching EMBL:R94929
Rdb:RH65111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 note="matching EMBL: R59134
                                                                                                                                                                                                'note="matching EMBL:D11677
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  note="matching EMBL:M78864
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .61617. .161761
                                                                              .07758. .107951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DSTS: STS24710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DSTS:STS20162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IDSTS:STS65422
                                                                                                                                                                                                                                       IbSTS:STS40201
                                                                                                                                                                                                                                                                                                                                    DSTS: STS25817
                                                                                                                                                                                                                                                                                                                                                                                                                                         DSTS:STS18321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IDSTS:STS20163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               oSTS:STS48564
                                                                                                                                      3bSTS:STS45044
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hdb: RH95543
                                                                                                                                                                                                                      RHdb: RH47139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RHdb: RH92419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Hdb:RH53972
                                                                                                                                                                                                                                                                                                                                                                                                                    Hdb:RH53698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Hdb:RH68657
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            :RH2867
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hdb:RH1243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      50870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STS
                                                                              STS
                                                                                                                                                                               STS
                                                                                                                                                                                                                                                                              STS
                                                                                                                                                                                                                                                                                                                                                                               STS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STS
```

ö

Gaps

;

Db 157683 GTTGGACAGAGACTTGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCT 157742 389 GITGGACAGAGACTIGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCT 448

GCACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCCGGGGGCAACTCGGAGCTGCT 508

449

ò

δ

```
DD 157803 CTACCACAACCAGACTGTCTTCTACCGGCGGCCATGCCATGCGAGGGGAGGGCACCACAA 157862
509 CTACCACAACCAGACTGTCTTCTACCGGCGGCCATGCCATGGCGAGAAGGGCACCCACAA
                                                                                                                                                                                                              Search completed: May 12, 2003, 01:39:15
Job time : 1650 secs
                                                                                                                                                    Db 157923 CCGTGTGATGGGCTAG 157938
                                                                                                                                   CCGTGTGATGGGCTAG 644
                                                                                                                                   629
     δλ
                                                                                                                                    ŏ
```

Db 157743 GCACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCT 157802

Appl

Sequence Sequence

Sequence

Sequence Sequence Sequence Sequence

Sequence

Sequence Seguence Sequence Sequence 1, Sequence 172 Sequence 301 Sequence 7, Seguence 1,

Run on:

```
APPLICANT: ERTESYAG, HELGA
APPLICANT: VALLA, SVEIN
APPLICANT: SKJAK-BRAEK, GUDMUND
APPLICANT: SKJAK-BRAEK, GUDMUND
APPLICANT: LARSEN, BJORN
TITLE OF INVENTION: DNA COMPOUNDS COMPRISING SEQUENCES
TITLE OF INVENTION: ENCODING MANNURONAN C-5-EPIMERASE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1:0, Version #1:30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
ADDRESSEE: BIRCH, STEWART, KOLASCH & BIRCH, STREET: P.O.BOX 747
CITY: FALLS CHURCH
STATE: VA
                                         US-08-611-729A-7
US-08-258-261B-1
US-08-456-837-1
US-08-457-342-1
US-08-457-666A-1
US-08-458-076A-1
                                                                                                                                                                                                               US-09-149-476-172
US-09-149-476-301
                                                                                                                                    US-08-457-335A-1
US-08-761-258-6
US-08-729-214-1
                                                                                                                                                                                                US-09-028-934-
                                                                                                                                                                                                                                                                                                         ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/08/387,942C
FILING DATE: 09-MAY-1995
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1809-106P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Azotobacter vinelandii
STRAIN: E
                                                                                                                                                                                                                                                                                                                                                                                Sequence 1, Application US/08387942C Patent No. 5939289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATTORNEY/AGENT INFORMATION:
NAME: MURPHY JR, GERALD M.
REGISTRATION NUMBER: 28,977
REFERENCE/DOCKET NUMBER: 1809
TELEPHONE: 703-205-8000
TELEPHONE: 703-205-8050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 12588 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                           44377
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        linear
                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            22042
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY:
LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                   JS-08-387-942C-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY:
                              (without alignments)
4702.377 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence Sequence Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence Sequence 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence Sequence S
                                                                                                                                                                            644
1 ctcaagtcactccctaaaaa......ggccccgtgtgatgggctag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Seguence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Seguence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Seguence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Seguence
                                                                                                  May 12, 2003, 01:06:59; Search time 42 Seconds
                                                                                                                                                                                                                                                                                                                                                                                                                                                      /cgn2_6/ptodata/1/ina/5A_COMB.seg:*
/cgn2_6/ptodata/1/ina/5B_COMB.seg:*
/cgn2_6/ptodata/1/ina/6A_COMB.seq:*
/cgn2_6/ptodata/1/ina/6B_COMB.seq:*
/cgn2_6/ptodata/1/ina/PcTuS_COMB.seq:*
/cgn2_6/ptodata/1/ina/packfiles1.seq:*
            GenCore version 5.1.4_p5_4578 Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                 rotal number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-231-818-1
US-08-484-840-1
US-08-483-094-1
US-09-318-448-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         403-852D-1
510-646B-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PCT-US95-15601-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-949-155-51
US-09-819-964-51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-08-514-014-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-674-984-1
US-08-674-984-2
                                                                                                                                                                                                                                                                        441362 seqs, 153338381 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                             Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                     OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-08-14
US-08-44
US-08-40
US-08-51
                                                                                                                                                                                                                        IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -60-sn
-60-sn
-80-sn
-80-sn
                                                                                                                                                                                                                                                                                                                                                                                                                                          Issued_Patents_NA:*
                                                                                                                                                                                                                                                                                                                               Minimum DB seq length: 0
Maximum DB seq length: 2000000000
                                                                                                                                                              US-10-037-591A-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query
Match Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        . . . . . .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score
                                                                                                                                                                                                                          Scoring table:
                                                                                                                                                                             Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      36.2
                                                                                                                                                                                                                                                                                                                                                                                                                                          Database :
                                                                                                                                                                                               Sednence:
                                                                                                                                                                                                                                                                        Searched:
```

Result

Š

000

O

ö

```
206 CTACAGCCACTGGCCCAGCTGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCT 265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             146 TGCAGTGCCCAGCATGTACCAGGTGGTTGTTGTTTGGCAATGGTCATGGGAACCCACAC 205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     585 TGAAGAGGACACCATGCTGACAACGATGGACGTTGAGGTGCTGGAGCTCTGCACCAAGAC 526
                                                                                               206 CTACAGCCACTGGCCCAGCTGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCT 265
                                                                                                                   146 TGCAGTGCCCAGCATGTACCAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 4; Length 2288;
                                                                                                                                                                                                                                                                                                                                               APPLICANT: FEILD, JOHN
TITLE OF INVENTION: A HUMAN SODIUM DEPENDENT PHOSPHATE
TITLE OF INVENTION: TRANSPORTER (IPT-1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              70;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 35; DB Pred. No. 2.6; 0; Mismatches
Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Cannon, Paul David
APPLICANT: Sankuratri, Suryanarayana
TITLE OF INVENTION: Human Intestinal Npt2B
FILE REFERENCE: RCCH-001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION NUMBER: US/09/499,964
CURRENT FILING DATE: 2000-02-08
EARLIER APPLICATION NUMBER: 60/119,321
EARLIER FILING DATE: 1999-02-09
NUMBER OF SEQ ID NOS: 2
SOFTWARE: FASTESQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                      FILE REFERENCE: GH-70006-D1
CURRENT APPLICATION NUMBER: US/09/553,132
CURRENT FILING DATE: 2000-04-19
PRIOR APPLICATION NUMBER: 60/044,974
PRIOR FILING DATE: 1997-04-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           465 GAAGAACTGTCCTGCCATTTTTCCTCC 439
                                                                                                                                                                    266 GAGGTGGACCACTGTGCCTCC 292
                                                                                                                                                                                                        465 GAAGAACTGTCCTGCCATTTTTCCTCC 439
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 2, Application US/09499964
Patent No. 6380374
                                                                                                                                                                                                                                                                                         Sequence 1, Application US/09553132 Patent No. 6350858
ő
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 52.48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1997-09-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 52.4.
The Conservative
 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER:
PRIOR FILING DATE: 1997-0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
CORGANISM: HOMO SAPIENS
US-09-553-132-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -09-499-964-2/c
                                                                                                                                                                                                                                                                              US-09-553-132-1/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 4137
TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 2288
 77;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE:
   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      q
                                                                                                                                       ρp
                                                                    g
                                                                                                      δ
                                                                                                                                                                         δ
                                                                                                                                                                                                                                                                                                                     7721 CCAGGAGGGGGGACGACGGCACCGACTACAGCAGCCTCTACGCCCAACAGCGTCAGCAATGT 7780
                                                                                                                                                                                                                                                                                                488 CCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGGCGTGCCA 547
                                                                                                                                                                                                                             Length 12588;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 35; DB 4; Length 2288; Pred. No. 2.6;
                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: JOHN
TITLE OF INVENTION: A HUMAN SODIUM DEPENDENT PHOSPHATE
TITLE OF INVENTION: TRANSPORTER (IPT-1)
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: RATNER
STREF"
                                                                                                                                                                                             68;
                                                                                                                                                         Score 36.2; DB 2;
Pred. No. 2.2;
0; Mismatches 68;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NYSTEM: DOS
FastSEQ for Windows Version 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US/08/935,433
FILING DATE: 23-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATE: 60/044,974
FILING DATE: 28-APR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GH-70006
                                                                                                                                                                                                                                                                                                                                                                                                   7841 céccadoradoración 2865
                                                                                                                                                                                                                                                                                                                                                                    548 TGGCGAGAGGGCACCCACAAGGGC 572
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 1, Application US/08935433 Patent No. 6319688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEX: 846169
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
THORTH: 2288 harr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23,031
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-407-0700
TELEFAX: 610-407-0701
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5.4%;
                                                                                                                                                         Query Match 5.6%;
Best Local Similarity 53.1%;
Matches 77; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDIUM TYPE: Diskette
COMPUTER: IBM COMPATIBLE
OPERATING SYSTEM: DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: PRESTIA, PAUL F
REGISTRATION NUMBER:
                                     CDS
6702..9695
                                                                                        CDS
9973..12588
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE: RATNER & F
STREET: P.O. BOX 980
CITY: VALLEY FORGE
       2227 . . 6438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRANDEDNESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -08-935-433-1/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STATE: PA
                                                       LOCATION:
FEATURE:
                                                                                      ; NAME/KEY:
; LOCATION:
US-08-387-942C-1
       LOCATION:
                       FEATURE:
NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08-935-433-1
                                                                                                                                                                                                                                                                                                  Ġ
                                                                                                                                                                                                                                                                                                                                                                                                     셤
```

ö

Indels

à g ð g ò ద

```
484 ACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGCCCAT 543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             265 TGAGGTGGAGCACTGTGCCTGTGCCTCCCTAGAGCCTGCTAGGCCCAACCGCCACCACCAG 324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                            837 ACCGCCCGAGCCACCGCCACCAGATCCGCCGCCACCCGACCCACCACCGCCGCGCGAGCCACC
                                                                                                  GCCATGGCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAGCGCAGGCTGTACCGTGTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bovine Polyimmunoglobulin Receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 3630;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: ANDREW C. HIATT, JULIAN
APPLICANT: K.-C. MA, THOMAS LEHNER
TITLE OF INVENTION: IMMUNOGLOBULINS CONTAINING PH
TITLE OF INVENTION: PROTEINS IN PLANTS AND THEIR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Mismatches 137;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        application below:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 34.8;
Pred. No. 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US/08/434,000A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION: 435
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/367,395
FILING DATE: 12/30/94
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                          Sequence 5, Application US/08434000A Patent No. 6046037 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Guise, Jeffrey W. REGISTRATION NUMBER: 34,613 REFERENCE/DOCKET NUMBER: 212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM COMPUTER: OPERATING SYSTEM: IBM P.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 552-8400
TELEFAX: (619) 552-0159
TELEX: 67-3510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Coding Sequence 152....2425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 5.4%;
Best Local Similarity 46.1%;
Matches 117; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEX: SEQUENCE LISTING INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3630 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DESCRIPTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: Word Perfect CURRENT APPLICATION DATA: APPLICATION NUMBER: US
                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CITY: Los Angeles
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRANDEDNESS:
TOPOLOGY: lin
                                                                                                                                                                          604 CCTTAG 609
                                                                                                                                                                                                                GCTGAG 712
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     90071
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; LOCATION:
US-08-434-000A-5
                                                                                                                                                                                                                                                                        RESULT 6
US-08-434-000A-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY:
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH:
                                                                                                  544
                                                                                                                                    777
                                                                                                                                                                                                                717
                                                            ď
                                                                                                                                                                          δ
                                                                                                  ŏ
                                                                                                                                    a
                                                                                                                                                                                                            d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ŏ
                                                                                                  ..
0
                                                                                                                                  146 TGCAGTGCCCAGCATGTACCAGGTGGTTGCATTGGCAATGGTCATGGGAACCCACAC 205
                                                                                                                                                                                                            206 CTACAGCCACTGGCCCAGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCT 265
                                                                                                                                                                                                                                  557 TGAAGAGGACACCATGCTGACAACGATGGACGTTGAGGTGCTGGAGCTCTGCACCAAGAC 498
                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1; Length 1848;
                                                        Length 4137;
                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: SHAMI, Ezekiel Y.
APPLICANT: ROTHSTEIN, Aser
APPLICANT: RAMJEESINGH, Mohabir
TITLE OF INVENTION: Use of Antibody/Antigen Interac
TITLE OF INVENTION: Protect or Modulate Biological
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Partentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/447,422
                                                                                              70;
                                                          DB 4;
                                                        Score 35; DB Pred. No. 3.2; 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 34.8; DE
Pred. No. 2.8;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: BENT, Stephen A. REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 17923/102 HYLI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   E: Foley & Lardner
3000 K Street, N.W., Suite 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/081,410
FILING DATE: 22-JUN-1993
APPLICATION NUMBER: US 07/938,505
FILING DATE: 31-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/205,748
FILING DATE: 21-JUN-1988
ATTORNEY AGEBT INFORMATION:
                                                                                                                                                                                                                                                                                        GAGGTGGAGCACTGTGCCTCC 292
                                                                                                                                                                                                                                                                                                                            437 GAAGAACTGTCCTGCCATTTTTCCTCC 411
                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 15, Application US/08447422 Patent No. 5686579 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY: USA
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DC
SOFTWARE: Patentin Release #1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INFORMATION FOR SEQ ID NO: 15: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5.4%;
54.8%;
                                                    Query Match 5.4%;
Best Local Similarity 52.4%;
Matches 77; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1848 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (202)672-5399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 5.4
Best Local Similarity 54.8
Matches 69; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Washington, D.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             linear
; ORGANISM: human
US-09-499-964-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                         US-08-447-422-15/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; TOPOLOGY:
US-08-447-422-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEX:
                                                                                                                                                                                                                                                                                        266
                                                                                                                                                                                                                                                                                                                                                                                      RESULT 5
```

ö

Length 3630;

DB 4;

```
TITLE OF INVENTION:
               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 3202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-08-148-910-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQ ID NO 1
                 Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δ
                                                                                                                                  òγ
                                                                                                                                                                  d
                                                                                                                                                                                                   Q.
                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                     õ
1233 TGAGGGGAGGCTCTGTGACTGTATCTTGCCCCTACAACCCTAAGGATGCCAACAGCGCGA 1292
                                                                     1353 GGGGGCTGATGAAGGAGCAGTACGAGGGCAGGCTGCTGCTGCTCACCGAGCCGGGCAACG 1412
                                                                                                                                                                                                      385 ATGAGTTGGACAGAGACTTGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGT 444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bovine Polyimmunoglobulin Receptor
                                                AGTCCTGTAGGGCCAGTGAAGATGGACCCCTCAACAGCAGGGCCATCTCCCCCTGGAGAT
                                                                                                                                                                                     GCCCGCACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PROTEINS IN PLANTS AND THEIR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          £
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/09/312,157
FILING DATE: 14-May-1999
CLASSIFICATION: <UNKNOWN>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                     K.-C. MA, THOMAS LEHNER TITLE OF INVENTION: IMMUNOGLOBULINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: 08/434,000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: «Unknown»
ATTORNEY, AGENT INFORMATION:
NAME: Guise, Deffrey
REGISTRATION NUMBER: 34,613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LOCATION: 152...2425
SEQUENCE DESCRIPTION: SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Coding Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM COMPATIBLE
OPERATING SYSTEM: IBM P.C.
SOFTWARE: WORD Perfect 5.1
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE: (619) 552-84.
TELEFAX: (619) 552-0159
TELEX: 67-351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 3630 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                   Sequence 5, Application US/09312157 Patent No. 6303341 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE LISTING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth
                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: ANDREW C. HIATT,
K.-C. MA, THOMAS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Suite 4700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                    1473 TGACCGACGGCGAC 1486
                                                                                                                                                                                                                                                   TGCTCTACCACAC 518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ZIP: 90071
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURE:
                                                                                                                                                                                                                                                                                                                                                       US-09-312-157-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-312-157-5
                                                                                                                                                                                     445
                                                                                                                                                                                                                  1413
                                                                                                                                                                                                                                                   505
                                                325
                                                                                                                                              셤
               셤
                                                ð
                                                                                g
                                                                                                                 ŏ
                                                                                                                                                                                     ç
                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                               Ď
```

```
ö
                                                        ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SHIMOMURA et al. No. 5466593el Protein and Gene Encoding Said Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2838 CTGAGCAGAGAGGCAGAGGTCTCAGGGGAGAGCAGAGTGCTGAGTGACGCTGACGTGCT 2779
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2719
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2718 CTGGAGCAGGGTCCAGCAGCTCACGCCCACTCCTCCCGCAGGCGCCGCCGCCGCAGCCTGC 2659
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1233 TGAGGGGAGGCTCTGTGACTGTATCTTGCCCCCTACAACCTAAGGATGCCAACAGGGGA 1292
                                                                                                                                                                                                                                                                         1293 AGTACTGGTGTCACTGGGAAGAGGCTCAAAACGGCCGCTGCTGCCGCGGTGGTGGAGAGCC 1352
                                                                                                                                                                                                                                                                                                                            385 ATGAGTTGGACAGAGACTTGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGT 444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         354 CTCAACAGCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTGAACCGGCTC 413
                                                                                                           265 TGAGGTGGAGCACTGTGCCTGTGCCTCCCTAGAGCCTGCTAGGCCCCAACCGCCACCCAG 324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                      325 AGTCCTGTAGGGCCAGTGAAGATGGACCCCTCAACAGCAGGGCCATCTCCCCCTGGAGAT
                                                                                                                                                                                                                                                                                                                                                                                 1353 GGGGGCTGATGAAGGAGCAGTACGAGGCAGGCTGGTGCTGCTCACCGAGCCGGGCAACG
                                                                                                                                                                                                                                                                                                                                                                                                                                       445 GCCCGCACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2778 CACCAGGCCCTGCACCTGGTGGGGAGCCCCTGCAGGCACCAGCACGGCCTCTCCGGGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             474 TCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACCACCAGACTGTCTTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2658 ATCCAGGTAGCAGCTGCCTGGGGCGCCCAGGCTCCAGGGCGCCCTGCCCCGGCCG 2606
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        534 CGGCGGCCATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAGCG 586
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 4; Length 3202;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 34.6; DB 4; Length 3 Pred. No. 3.8; 0; Mismatches 124; Indels
                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
APPLICANT: THOMPSON, Catherine C.
APPLICANT: THOMPSON, Catherine C.
TITLE OF INVENTION: HUMAN HAIRLESS GENE AND PROTEIN
FILE REFERENCE: Thompson-20263/024345
CURRENT APPLICATION NUMBER: US/09/287,354
CURRENT FILING DATE: 1999-04-07
EARLIER FILING DATE: 1998-04-07
NUMBER OF SEQ ID NOS: 10
                                                     0; Mismatches 137;
Score 34.8; D. Pred. No. 3.5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 14, Application US/08148910
Patent No. 5466593
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 1, Application US/09287354
Patent No. 6348348
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5.4%;
        5.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity 46.8
Matches 109; Conservative
                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1473 TGACCGACGGCGAC 1486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     505 TGCTCTACCACAC 518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA
, ORGANISM: Homo sapiens
US-09-287-354-1
```

```
Nucleotide Sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 494 CAACTCGGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGGCCATGCCATGGCGA 553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 434 CCGTTGCCTGTGCCCGCACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCCCGGGG 493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Coding For These Polypeptides And Their Use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 2033;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LIBRARY: Pre-made Lambda phage Library,
LIBRARY: human liver(49, male) cDNA Library (Stratagene)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                De Crecy-Lagard, Valerie
FRTION: Polypeptides Involved In The
FRTION: Blosynthesis Of Streptogramir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 34.4; DB 1;
Pred. No. 3.7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            56;
                                                                                                                                                                  CORRAIN AFELLOATION DOLL AND A PAPLICATION NUMBER: US/08/448,937A FILING DATE: May 24, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA: APPLICATION NUMBER: 08/146,910
FILING DATE: NO. 56/7164ember 5, 1993
ATTORNEY/AGENT INFORMATION:
REGISTRATION NUMBER: 33,367
REFERENCE/DOCKET NUMBER: TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                            MEDIUM TYPE: Diskette, 5.25 inch, MEDIUM TYPE: 500 Kb Storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 1, Application US/08403852D
Patent No. 5891695
GENERAL INFORMATION:
APPLICANT: Blanc, Veronique
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                     INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 2033 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Debussche, Laurent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nathalie
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Patricia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Blanc, Veronique
Blanche, Francis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Monique
                                                                                             IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Denis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity 54.8
Matches 68; Conservative
                                                                                                             OPERATING SYSTEM: ONFOCE SOFTWARE: Wordperfect CURRENT APPLICATION DATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Crouzet, Joel
                                                                                                                                                                                                                                                                                                                                                                                                  202-371-8856
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: POT TITLE OF INVENTION: BLO TITLE OF INVENTION: COUNTERS OF CORRESPONDENCE ADDRESS:
                                          COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Jacques,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Thibaut,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Zagorec,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Lacroix,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IMMEDIATE SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: line
MOLECULE TYPE: C
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1035 GAGG 1038
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    554 GAAG 557
                                                                                                 COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-448-937A-14
                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 11
US-08-403-852D-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
APPLICANT: Takeshi SHIMOMURA et al.
TITLE OF INVENTION: No. 5677164el Protein and Gene Encoding Said Protein
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wenderoth, Lind & Ponack
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            434 CCGTTGCCTGTGCCCGCACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCCCGGGG 493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   494 CAACTCGGAGCTGCTTACCACAACCAGACTGTCTTCTACCGGCGGCCATGCCATGGCGA 553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 34.4; DB 1; Length 2033;
Pred. No. 3.7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LIBRARY: Pre-made Lambda phage Library,
LIBRARY: human liver(49, male) cDNA Library (Stratagene)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       56; Indels
                                     ADDRESSEE: Wenderoth, Lind & Ponack
STREET: 805 Fifteenth Street, N.W., #700
CITY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEE: Wenderoth, Lind & Ponack
: 805 Fifteenth Street, N.W., #700
Washington
                                                                                                                                                                                                                      OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordberfect
CURRENT APPLICATION DATA:
APPLICATION NOWBER: US/08/148,910
FILING DATE: No. 5466593ember 5, 1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Mismatches
                                                                                     STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch,
MEDIUM TYPE: 500 Kb Storage
COMPUTER: IBM COMPATIBLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 14, Application US/08448937A Patent No. 5677164
                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-8850
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 2033 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5.3%;
                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                    Warren M. Cheek,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Local Similarity 54.8
Matches 68; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEPHONE: 202-371-88
TELEFAX: 202-371-8856
                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Warren M. Chee
REGISTRATION NUMBER:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE: CDNA ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IMMEDIATE SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1035 GAGG 1038
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               554 GAAG 557
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 10
US-08-448-937A-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-08-148-910-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CITY:
STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δ
```

.; 0

Gaps

```
3538 ccerricorgeagaercarerccerrecrierreacercererceres 3597
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3598 GCCACCCGACAAGATCGCCGACCAGATCAGTGACACCGTCCTCGACGCCCTGCTGCGCG 3657
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          397 GAGACTIGAACCGGCTCCCCCAGGACCIGIACCACGCCCGTIGCCTGIGCCCGCACTGCG 456
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            337 CCAGTGAAGATGGACCCCTCAACAGGGCCCATCTCCCCCTGGAGATATGAGTTGGACA 396
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               277 CIGIGCCIGIGCCICCCCIAGAGCCIGCIAGGCCCAACCGCCACCCAGGGTCCIGIAGGG 336
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AGGACCCGCCTCACGCGTCGCGGTCGCGGCCGGTCCAC 3713
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     457 TCAGCCIACAGACAGGCICCCACAIGGACCCCCGGGGCAACICGGAGCIGCICIAC 512
                    Polypeptides Involved In The
Biosynthesis Of Streptogramins, Nucleotide &
Coding For These Polypeptides And Their Use
45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 5392;
                                                                                                                            3: Finnegan, Henderson, Farabow, Garrett & Dunner
1300 I Street, N.W., Suite 700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5.3%; Score 34.4; DB 3; 3.46.6%; Pred. No. 5.2; tive 0; Mismatches 126;
                                                                                                                                                                                                                                                                                                                  SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            03806.0054-01000
                                                                                                                                                                                                                                                                                                                                                                                                                                       PELLICATION NUMBER: US 08/403,852
FILING DATE: 10-MAY-1995
PRICR APPLICATION DATA:
APPLICATION NUMBER: PCT/FR 93/00923
FILING DATE: 25-SEP-1993
PRICR APPLICATION DATA:
FILING DATE: 25-SEP-1993
FILING DATE: 25-SEP-1992
                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/08/510,646B
FILING DATE: 03-AUG-1995
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 25-SEP-1992
ATTORNEY/AGENT INFORMATION:
NAME: MEYER, Kenneth J.
REGISTRATION NUMBER: 25.146
REFERENCE/DOCKET NUMBER: 0380
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    S.pristinaespiralis
                                                                                                                                                                                                                                                           MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (202) 408-4000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: (202) 408 4400
INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5392 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 46.6
Matches 110; Conservative
                                  TITLE OF INVENTION: Poly
TITLE OF INVENTION: BLOS
TITLE OF INVENTION: COAL
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
CADDRESSE: Finnegan, FSTREET: 1300 I Street,
                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION: 435
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
Debussche,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   nucleic acid
                                                                                                                                                                         Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        linear
                                                                                                                                                                                                                             ZIP: 20005-3315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORIGINAL SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-08-510-646B-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH:
                                                                                                                                                                                                               COUNTRY:
                                                                                                                                                                                             STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ολ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3598 GCCACCCGACAAGATCGCCGACCAGATCAGTGACACCGTCCTCGACGCCCTGCTGCGCG 3657
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              277 CTGTGCCTGTGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGG 336
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     397 GAGACTIGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCG 456
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         337 CCAGTGAAGATGGACCCCTCAACAGCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACA 396
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3658 AGGACCCCGCCTCACGCGTCGACGCCTGATCACCACCGGCCAGGTCCAC 3713
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                457 TCAGCCTACAGACAGGCTCCCACATGGACCCCGGGGCAACTCGGAGCTGCTCTAC 512
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 5392;
      E: Finnegan, Henderson, Farabow, Garrett & Dunner 1300 I Street, N.W., Suite 700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                         SYSTEM: PC-DOS/MS-DOS
PatentIn Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 34.4; DB 2;
Pred. No. 5.2;
0; Mismatches 126;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   03806.0054-00000
                                                                                                                                                                                                                                                     FILING DATE: 10-MAY-1995
PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: PCT/FR 93/00923
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: FF 92/11441
FILING DATE: 25-SEP-1992
ATTORNEY/AGENT INFORWATION:
                                                                                                                                                                                       Sequence 1, Application US/08510646B
Patent No. 6077699
                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Meyers, Kenneth J.
REGISTRATION NUMBER: 25,146
REPERROCE/DOCKET NUMBER: 03806
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 408-4400
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: S.pristinaespiralis
                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Patricia
Denis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nathalie
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Blanc, Veronique
Blanche, Francis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 46.6%;
Matches 110; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH: 5392 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Jacques,
Lacroix,
Thibaut,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Crouzet,
                                                  CIAL
STATE: D.C.
COUNTRY: USA
--- 20005-3315
                                                                                                                                                             COMPUTER: IBM PC
OPERATING SYSTEM:
                    STREET: 1300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TOPOLOGY: linear MOLECULE TYPE: CDN HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORIGINAL SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-403-852D-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-510-646B-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
```

ò

ò

ò

ö

Zagorec,

```
APPLICANT: MOSCOW, Jeffrey A.
APPLICANT: COWAN, Kenneth H.
APPLICANT: DIXON, Kathy
APPLICANT: HE, Rui
TITLE OF INVENTION: A GENE ENCODING A HUMAN REDUCED FOLATE
TITLE OF INVENTION: CARRIER (RFC) AND METHODS FOR THE TREATMENT OF
TITLE OF INVENTION: METHOTREXATE-RESISTANT, TRANSPORT-DEFICIENT CANCER CELLS
401 CTTGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAG 460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 246 CGTGTTCCTGCTCACCGACTACCTGCGCTACACGCCGGTGCTGCTGCTGCTGCAGGGGCTCAG 305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           461 CCTACAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCA 520
                                                                                            3658 AGGACCCCGCCTCACGCGTCGCGGTCGAGACCCTGATCACCACCGGCCAGGTCCAC 3713
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .
0
                                                             457 TCAGCCTACAGACAGGCTCCCACATGGACCCCGGGGCAACTCGGAGCTGCTCTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1; Length 1776;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 34.2; DB 1; 1
Pred. No. 4;
0; Mismatches 63;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              40399/324/NIHD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
CITY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US/08/484,840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                               Sequence 1, Application US/08484840 Patent No. 5716788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 40
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 5.3%;
Best Local Similarity 53.3%;
Matches 72; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (202)672-5300 (202)672-5399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  07-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH: 1776 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: (202)672-53999
TELEX: 904136
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGAGCTCTTCTACAG 380
                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS: ADDRESSEE: Foley & L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GACTGICTICTACCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1..1773
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20007-5109
                                                                                                                                                                                                                                                           GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: 0 CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ;
US-08-484-840-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
                                                                                                                                                                                           US-08-484-840-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               521
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         366
                                                               δ
                                                                                                       qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                  De Crecy-Lagard, Valerie
WENTION: Polypeptides Involved In The
WENTION: Biosynthesis Of Streptogramins, Nucleotide Sequences
WENTION: Coding For These Polypeptides And Their Use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3538 CCGCTGCTTCCTGGAGAGTCATGTCCCGTCGCCTGTTCACCTCGGAGTCCGTGACCGAGG 3597
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     277 CTGTGCCTGTGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGG 336
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        337 CCAGTGAAGATGGACCCCTCAACAGCAGGCCCATCTCCCCCTGGAGATATGAGTTGGACA 396
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            397 GAGACTIGAACCGGCTCCCCCAGGACCIGIACCACGCCCGTIGCCTGTGCCCGCACTGCG 456
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                         ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner
STREET: 1300 I Street, N.W., Suite 700
CITY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 5392;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5.3%; Score 34.4; DB 4;
46.6%; Pred. No. 5.2;
tive 0; Mismatches 126;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Meyers, Kenneth J.
REGISTRATION NUMBER: 25.146
REFERENCE/DOCKET NUMBER: 03806.0054-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 408-4400
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/403,852
FILING DATE: 10-MAY-1995
APPLICATION NUMBER: PCT/FR 93/00923
FILING DATE: 25-SEP-1993
PRIOR APPLICATION DATA:
FILING DATE: 25-SEP-1992
APPLICATION NUMBER: FR 92/11441
FILING DATE: 25-SEP-1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/09/231,818 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: S.pristinaespiralis
             Sequence 1, Application US/09231818 Patent No. 6171846
                                                                                                                                                                                                                                Debussche, Laurent
                                                                                                                                          Nathalie
                                                                                                                                                                  Patricia
                                                                          Blanc, Veronique
Blanche, Francis
                                                                                                                                                                                                            Zagorec, Monigue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5392 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM IYPE: Florm: 'COMPUTER'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Similarity 46.6
Matches 110; Conservative
                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                      TITLE OF INVENTION: 1
TITLE OF INVENTION: 1
TITLE OF INVENTION: (
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: CDNA HYPOTHETICAL: NO ANTI-central
                                                                                                                                               Jacques,
                                                                                                                                                                  Lacroix,
                                                                                                                         Crouzet,
                                                                                                                                                                                    Thibaut,
                                                       GENERAL INFORMATION:
APPLICANT: Blanc,
                                                                                                                                                                                                                            APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-231-818-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGIH:
                                                                                                                                                                                                                                                                                                                                                                                                                                             STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
```

ö

a ò g

```
A GENE ENCODING A HUMAN REDUCED FOLATE
CARRIER (RFC) AND METHODS FOR THE TREATMENT OF
METHOTREXATE-RESISTANT, TRANSPORT-DEFICIENT CANCER CELLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     401 CTTGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAG 460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             461 CCTACAGACAGGCTCCCACATGGACCCCGGGGCAACTCGGAGCTGCTCTACCACAACCA 520
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             306 crrcerereseresecrecrecrecrecresececarresesecencereseaseare
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5.3%; Score 34.2; DB 1; Length 1776; 53.3%; Pred. No. 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             63; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                      PatentIn Release #1.0, Version #1.30
                                                                                                                                                                                                                                        ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
CITY: Washington
STATE: D.C.
COUNTRY: USA
2.P: 20007-5109
COMPUTER READALE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29,768
ER: 40399/323/NIHD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/483,094
FILLING DATE: 07-JUN-1995
CLASSIFICATION: 514
Sequence 1, Application US/08483094
Patent No. 5763216
                                                         APPLICANT: MOSCOW, Jeffrey A. APPLICANT: COWAN, Kenneth H. APPLICANT: DIXON, Kathy APPLICANT: HE, Rui ITLE OF INVENTION: A GENE ENCOTITLE OF INVENTION: METHOTREXAT TITLE OF INVENTION: METHOTREXAT TITLE OF SEQUENCES: 6 CORRESPONDENCE ADDRESS: ADDRESSE: FOLEY & LAIGHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEX: 904136
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1776 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE/DOCKET NUMBER: 4C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (202)672-5300
(202)672-5399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 5.3%
Best Local Similarity 53.3%
Matches 72; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          521 GACTGTCTTCTACCG 535
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1..1773
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY:
LOCATION:
US-08-483-094-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
```

Search completed: May 12, 2003, 01:56:36 Job time: 70 secs

```
May 12, 2003, 01:08:34 ; Search time 93 Seconds (without alignments) 8605.398 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 ctcaagtcactccctaaaaa......ggccccgtgtgatgggctag 644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 3,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sednence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             pubpna/US09_NEW_PUB.seq:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /pubpna/USO7_NEW_PUB.seq:
/pubpna/PCTUS_PUBCOMB.seq
/pubpna/USO8_NEW_PUB.seq:
/pubpna/USO8_PUBCOMB.seq:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq
/cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seg
GenCore version 5.1.4_p5_4578
Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     783854 seqs, 621352466 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                     OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Published Applications NA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IDENTITY_NUC Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-037-591A-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      478.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
4778.44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Database :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Searched:
                                                                                                                                                                                                                                                              Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Result
```

Seguence 9, Appli	Seguence 28, Appl	Seguence 28, Appl	Sequence 17, Appl	17,	Sequence 3, Ap	'n	10	Sequence 3, Appli	10,	447,	447,	Sequence 447, App	447,	447,		447,	447,			447,	10,	Sequence 447, App	Sequence 447, App	Sequence 447, App	Sequence 447, App	
US-09-886-404-9	US-09-320-713-28	US-09-731-816-28	US-09-854-280-17	US-09-854-208-17	US-09-874-503-3	US-10-000-157-3	US-10-036-041-10	US-09-747-259-3	US-10-035-855-10	US-10-174-590-447	US-10-176-758-447	US-10-175-737-447	US-10-173-706-447	0-175-73	US-10-175-752-447	US-10-176-482-447	US-10-176-757-447	US-10-176-913-447	US-10-180-552-447	US-10-180-557-447	US-09-931-836-10	US-10-173-700-447	US-10-174-572-447	US-10-174-579-447	US-10-174-582-447	
10	σ	10	10	10	6	σ	σ	6	თ	თ	σ	σ	σ	σ	σ	σ	σ	σ	σ	σ	σ	0	σ	σ	σ	
1496	1067	1067	594	594	1047	1047	1047	1047	1047	1047	1047	1047	1047	1047	1047	1047	1047	1047	1047	1047	1047	1047	1047	1047	1047	
52.2	9.8	8.6	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	
336.2	55.4	55.4	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	
20	21	22	. 23	24	25	26	27	28	29	30	31	32	33	34	32	36	37	38	39	40	41	42	43	44	45	
																	:									

ALIGNMENTS

Length 644; Indels APPLICANT: Jing, Shuqian TITLE OF INVENTION: IL-17 Like Molecules and Uses Thereof FILE REFERENCE: 01017/37128B Score 644; DB 10; Pred. No. 2.2e-196; Mismatches CURRENT APPLICATION NUMBER: US/09/886,404 CURRENT FILING DATE: 2001-06-21 APPLICATION NUMBER: 09/810,384 FILING DATE: 2001-03-16 APPLICATION NUMBER: 60/266,159 1, Application US/09886404 or US20020037524A1 ; 100.0%; 100.0%; APPLICANT: Medlock, Eugene
APPLICANT: Yeh, Richard
APPLICANT: Silbiger, Scott M.
APPLICANT: Elliot, Gary S.
APPLICANT: Nguyen, Hung Q. FILING DATE: 2001-02-02 Matches 644; Conservative Patentin Ver. TYPE: DNA ORGANISM: Homo sapiens ; LOCATION: (159)..(641) US-09-886-404-1 NUMBER OF SEQ ID NOS: Best Local Similarity TLING DATE: PRIOR APPLICATION PPRIOR FILING DATE: NAME/KEY: CDS SEQ ID NO 1 LENGTH: 644 Query Match SOFTWARE

Gaps 1 CTCAAGTCACTCCCTAAAAGACAGTGGAAATAAATTTGAATAAACAAAACAGGCTTGCT 60 0

0

9 1 CTCAAGTCACTCCCTAAAAAGACAGTGGAAATAAATTTGAATAAACAAAACAGGCTTGCT g

d ò 셤 à ద ŏ 윰. à 셤 ò

```
;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 1320;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 478.4; DB 9;
Pred. No. 3.9e-143;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NR FILING DATE: 2000-12-20

NR FILING DATE: 2000-12-20

NR APPLICATION NUMBER: US PCT/US00/32678

NR APPLICATION NUMBER: US PCT/US00/30873

NR FILING DATE: 2000-11-10

NR APPLICATION NUMBER: US PCT/US00/23328

NR FILING DATE: 2000-08-24

NR FILING DATE: 2000-08-24

NR PILING DATE: 2000-08-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US PCT/US00/07532
FILING DATE: 2000-03-21
APPLICATION NUMBER: US PCT/US00/05841
FILING DATE: 2000-03-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AFFLING DATE: 2000-03-02
APPLICATION NUMBER: US PCT/US00/05601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US PCT/US99/31274
FILING DATE: 1999-12-30
APPLICATION NUMBER: US PCT/US99/10733
APPLICATION NUMBER: US PCT/US99/10733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 1999-05-14
APPLICATION NUMBER: US PCT/US99/05028
FILING DATE: 1999-03-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 1999-05-14
APPLICATION NUMBER: US PCT/US01/06520
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 2001-02-28
APPLICATION NUMBER: US PCT/US00/34956
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US PCT/US00/04341
                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 2001-03-22
APPLICATION NUMBER: US 09/747,259
FILING DATE: 2000-12-20
APPLICATION NUMBER: US 09/644,848
                                                              FILING DATE: 2000-06-22
PPELICATION NUMBER: US 60/172,096
FILING DATE: 1999-12-23
APPLICATION NUMBER: US 60/138,387
                                                                                                                                                                                                                                                                                                                FILING DATE: 1998-05-15
APPLICATION NUMBER: US 09/854,208
FILING DATE: 2001-05-10
                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 2001-05-10
APPLICATION NUMBER: US 09/854,280
                                                                                                                                                                                      APPLICATION NUMBER: US 60/131,022 FILING DATE: 1999-04-26
                                                                                                                                                                                                       FILING DATE: 1999-04-26 APPLICATION NUMBER: US 60/130,232
                                                                                                                                                                                                                                                                             FILING DATE: 1998-12-23
APPLICATION NUMBER: US 60/085,579
                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 2001-05-20
APPLICATION NUMBER: US 09/816,744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US 09/380,142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US 09/380,138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 1999-08-25
APPLICATION NUMBER: US 09/311,832
                                   FILING DATE: 2000-03-21
APPLICATION NUMBER: US 60/213,807
                                                                                                                                    FILING DATE: 1999-06-09
APPLICATION NUMBER: US 60/134,287
                                                                                                                                                                                                                                          FILING DATE: 1999-04-21
APPLICATION NUMBER: US 60/113,621
                                                                                                                                                                       1999-05-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2000-08-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1999-08-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2000-06-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 74.3%;
Best Local Similarity 99.8%;
Matches 479; Conservative
                               2000-03-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NOS: 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
CORGANISM: Homo Sapien
US-09-874-503-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR FILLI
PRIOR APPL
PRIOR FILLI
NUMBER OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 5
LENGIH: 1:
                  PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR
PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF FILE REFERENCE: P1381HZLP3(US)
CURRENT APPLICATION NUMBER: US/09/874,503
CURRENT FILING DATE: 2001-06-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GAAAATTAAAATCAGGACTCCTAACCTGCTCCAGTCAGCCTGCTTCCACGAGGCCTGTCAG 120
                                                                                                                                                                                                                                             CTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCAGTGAAGATGGACCCCTCAACA 360
                                                                                                                                                                                                                                                                                                                                                                                          GCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTGAACCGGCTCCCCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               481 TGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGGC
                                                                                                                                                                           GGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCTGTGCCTCCCCTAGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAGCGCAGGCTGTACCGTG
                                                 TGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGGC
                                                                                                     TGGCAATGGTCATGGGAACCCACACCTACAGCCACTGGCCCAGCTGCTGCCCCAGCAAAG
                                                                                                                                                                                                                                                                  CIGCTAGGCCCAAACCGCCACAGAGTCCTGTAGGCCCAGTGAAGATGAAGACCCCTCAACA
                                   TCAGTGCCCCACTTGTGACTGAGTGTGCAGTGCCCAGCATGTACCAGGTGGTTGCATTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITCCTIAGCTIGTGTGTGTGTGCGCCCCCGTGTGATGGCCTAG 644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: US 60/253,646 PRIOR FILING DATE: 2000-11-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: US 60/242,837 PRIOR FILING DATE: 2000-10-24 PRIOR APPLICATION NUMBER: US 60/175,481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: US 60/244,072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 5, Application US/09874503
Patent No. US20020177188A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              rimaldi,J.Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    tarovasnik, Melissa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hillan, Kenneth J.
Hymowitz, Sarah G.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RIOR FILING DATE: 2000-10-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VanLookeren, Menno
Vandlen, Richard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Williams, P. Mickey Wood, William I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Watanabe, Colin K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gurney, Austin L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Chen, Jian
Filvaroff,Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Yansura, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 odowski, Paul
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Fong, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-874-503-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PLICAN
61
                                                                  121
                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         601
                                                                                                     181
                                                                                                                                                                           241
                                                                                                                                                                                                          241
                                                                                                                                                                                                                                             301
                                                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                                     361
                                                                                                                                                                                                                                                                                                                                                                                        421
                                                                                                                                                                                                                                                                                                                                                                                                                           421
                                                                                                                                                                                                                                                                                                                                                                                                                                                              481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    541
                                                                                                                                                                                                                                                                                                                    361
                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        601
                                                                                                                                                                                                                                                                                                                                                                                                                           ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
```

õ

Gaps

```
ICATION NUMBER: PCT/US99/05028
NG DATE: 1999-03-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VG DATE: 1999-03-08
ICATION NUMBER: PCT/US99/10733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: PCT/US00/04341
FILING DATE: 2000-02-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ICATION NUMBER: PCI/US00/07532
NG DATE: 2000-03-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: PCT/US01/17800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: PCT/US01/19692
FILING DATE: 2001-06-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: PCT/US01/21066
FILING DATE: 2001-06-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: PCT/US01/21735
FILING DATE: 2001-07-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ICATION NUMBER: PCT/US99/31274
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CATION NUMBER: PCT/US00/05601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CATION NUMBER: PCT/US00/05841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: PCT/US00/15264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ICATION NUMBER: PCT/US00/23328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: PCT/US00/30873
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: PCT/US00/32678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: PCT/US00/34956
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: PCT/US01/06520
                                                                                                                                              ICATION NUMBER: 60/253646
NG DATE: 2000-11-28
ICATION NUMBER: 09/311832
                                                                                                                                                                                                                                       ICATION NUMBER: 09/380142
WG DATE: 1999-08-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CATION NUMBER: 09/931836
                                                                                                                      APPLICATION NUMBER: 60/244072
FILING DATE: 2000-10-26
                                                                                                                                                                                                           ICATION NUMBER: 09/380138
                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 09/854208
                                                                                                                                                                                                                                                                                                                                                                                      CATION NUMBER: 09/854280
                                                                                                                                                                                                                                                                                                                                                                                                                   ICATION NUMBER: 09/874503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CATION NUMBER: 09/918585
                                 NUMBER: 60/191007
: 2000-03-21
                                                                                                                                                                                                                                                                                                 ICATION NUMBER: 09/747259
                                                                                                                                                                                                                                                                                                                             ICATION NUMBER: 09/816744
                                                                                                                                                                                                                                                                                                                                                                                                                                              ICATION NUMBER: 09/908827
NG DATE: 2001-07-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CATION NUMBER: 09/929404
                                                                                                                                                                                                                                                                                                                                                                                                     2001-05-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 1999-12-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2000-08-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 2000-11-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2000-12-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2001-02-28
                                                                                                                                                                                                                                                                                                                                                                        2001-05-10
                                                                                                                                                                                                                                                                                                                                                                                                                                  2001-06-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2001-08-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DATE: 1999-05-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2000-03-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2000-06-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 2000-12-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2001-07-30
                                                                          2000-06-22
                                                                                                       2000-10-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2001-08-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2001-06-01
                                                                                                                                                                                              DATE: 1999-05-14
                                                                                                                                                                                                                                                                                                                                           2001-03-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2001-03-01
                                                                                                                                                                                                                           1999-08-2
                                                                                                                                                                                                                                                                                   2000-08-2
                                                                                                                                                                                                                                                                                                                2000-12-
                                                              CATION NUMBER:
                                                                                           ICATION NUMBER:
                                                                                                                                                                                                                                                                     CATION NUMBER:
                                                                             FILING DATE:
                                                                                                        FILING DATE:
                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                                                                                       FILING DATE:
                                                                                                                                                                                                                                                                                                                                             'ILING DATE:
                                                                                                                                                                                                                                                                                                                                                                          FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                      LING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE:
                                                                                                                                                                                                                                                                                    TLING DATE:
                                                                                                                                                                                                                                                                                                                 ILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR F
NUMBER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR
                                                PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                          PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
FILE REFERENCE: P1381HCLP4(US)
CURRENT APPLICATION NUMBER: US/10/000,157
CURRENT FILING DATE: 2001-10-30
                                                                                                                                                                                                                                                    612
                                                                                                  285 GIGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCAGTGAA 344
                                                                                                                     584
                                                                                                                                                                                                                                                                                                                                                                                                                 524
                                                                                                                                                                                                                                                                                                                                                                                                  CGCAGGCTGTACCGTGTTTCCTTAGCTTGTGTGTGTGCGGCCCCGTGTGATGGGCTAG 644
                                                                                                                                                              345 GAIGGACCCTCAACAGCAGGGCCAICTCCCCCTGGAGAIAIGAGIIGGACAGAGACIIG 404
                                          GTCTTCTACCGGCGGCCATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAG
                                                                                                                                                                                                                                                                                                                                                          CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACT
                                                                                                                                                                                                                      AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT FILING DATE: 2001-10-30
PRIOR APPLICATION UNDBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/113621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR FILING DATE: 1999-04-21
PRIOR APPLICATION NUMBER: 60/131022
PRIOR FILING DATE: 1999-04-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Goddard, Audrey
Godowski, Paul L.
Grimaldi, J.Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR FILING DATE: 1998-12-23
PRIOR APPLICATION NUMBER: 60/130232
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR FILING DATE: 1999-04-26
PRIOR APPLICATION NUMBER: 60/134287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 1999-05-14
APPLICATION NUMBER: 60/138387
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 60/172096
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-000-157-5; Sequence 5, Application US/10000157; Publication No. US20020182673A1; ENDERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Starovasnik, Melissa.
VanLookeren, Menno
Vandlen, Richard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Williams, P.Mickey Wood, William
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 1999-06-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 1999-12-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               llvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1, Hanznong
illan, Kenneth
ymowitz, Sarah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Watanabe, Colin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Yansura, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gurney, Austin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fong, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              umas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hanzhong
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Chen, Jian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PPLICANT
                                                                                                                                                                                                                    405
                                                                                                                                                                                                                                                                                                                                        525
                                                                                                                                                                                                                                                                                                                                                                                                  585
                                                                                                                                                                                           493
                                                                                                                                                                                                                                                                              465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RIOR
               셤
                                                                         셤
                                                                                                                                 요
                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                              à
                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                   à
                                             à
                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                 6
```

09/644848

60/213807 60/242837

```
APPLICANT: TANCALATAGEM
APPLICANT: VARNATAGEM
TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
FILE REFERENCE: P1381ROLP1(US)
CURRENT APPLICATION NUMBER: US 09/747,259
CURRENT FILING DATE: 2000-12-20
PRIOR APPLICATION NUMBER: US 09/311,832
PRIOR APPLICATION NUMBER: US 09/311,832
PRIOR APPLICATION NUMBER: US 06/172,096
PRIOR APPLICATION NUMBER: US 06/172,096
PRIOR FILING DATE: 1999-12-33
PRIOR FILING DATE: 1999-12-30
PRIOR FILING DATE: 2000-01-11
PRIOR APPLICATION NUMBER: PCT/US00/04341
PRIOR FILING DATE: 2000-01-11
PRIOR FILING DATE: 2000-01-01
PRIOR FILING DATE: 2000-01-01
PRIOR FILING DATE: 2000-01-01
        432
                                                                                                                                                 285 GIGCCICCCCIAGAGCCIGCIAGGCCCAACCGCCACCAGAGICCIGIAGGGCCAGIGAA 344
                                                                                                                                                                  433 GTGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGCCCGGTGAA 492
                                                                                                                                                                                                               345 GAIGGACCCCICAACAGCAGGGCCAICICCCCTGGAGAIAIGAGIIGGACAGAGACITG 404
                                                                                                                                                                                                                                                                                                                    612
                                                                                                                                                                                                                                                                                                                                                                                                                                         464
                                                                             284
                                                                                                                                                                                                                                      493 GATGGACCCCTCAACAGCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTG
                                                                                                                                                                                                                                                                                                    405 AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA
                                                                                                                                                                                                                                                                                                                                                                     613 CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACAGACT
                                                                                                 465 CAGACAGGCTCCCACATGGACCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACT
                                                                               TGCTGCCCCAGCAAAGGGCAAGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                         GTCTTCTACCGGCGGCCATGCCATGCGAGAAGGGCACCCCACAAGGGCTACTGCCTGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 5, Application US/09747259 Publication No. US20030008815A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Grimaldi, Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VanLookeren, Menno
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Williams, P.Mickey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Chen, Jian
Filvaroff,Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Vandlen, Richard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Godďard, Audrey
Godowski, Paul
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       L1, Hanzhong
Hillan, Kenneth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Watanabe, Colin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Genentech, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gurney, Austin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Wood, William
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Fong, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-747-259-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                          525
                                                                                 225
                                               qq
                                                                                                               Db
                                                                                                                                                                                    g
                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                            ολ
                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                 à
                                                                                 ò
                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                       ò
                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Gurney, Austin L.
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William B.
APPLICANT: Wood, William B.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME FILE REFERENCE: P3230RIC:
CURRENT APPLICATION NUMBER: 105.10/063,547
CURRENT FILING DATE: 2002-05-02
                                                                                                                                                                                                                                                                                                                                         492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   165 CAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACACCTACAGCCACTGGCCCAGC 224
                                                                                                                                                                                      313 CAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACACCTACAGCCACTGGCCCAGG 372
                                                                                                                                                                                                                                    225 TGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCT 284
                                                                                                                                                                                                                                                                      432
                                                                                                                                                                                                                                                                                                       GTGCCTCCCCTAGAGCCTGCTAGGCCCCAACCGCCACCAGAGTCCTGTAGGGCCCAGTGAA 344
                                                                                                                                                                                                                                                                                                                                                                           404
                                                                                                                                                                                                                                                                                                                                                                                                                                            464
                                                                                                                                                                                                                                                                                                                                                                                                                                                              524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                         CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CGCAGGCTGTACCGTGTTCCTTAGCTTGTGTGTGTGCGGCCCCGTGTGATGGGCTAG
                                                                                                                                                                                                                                                                                                                       AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GTCTTCTACCGGCGCCATGCCATGCCGAGAGGGCACCCACAAGGGCCTACTGCCTGGAG
                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 1320;
                                                                                                   Length 1320
                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 170
SEQ ID NO 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 478.4; DB 9;
Pred. No. 3.9e-143;
0; Mismatches 1;
                                                                                                 Score 478.4; DB 9;
Pred. No. 3.9e-143;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 4
US-10-063-547-155
; Sequence 155, Application US/10063547
; Publication No. US20020182638A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ٦,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Godowski, Paul J.
Grimaldi, Christopher
                                                                                               Ouery Match
Best Local Similarity 99.8%;
Matches 479; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        74.38;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Eaton, Dan L. APPLICANT: Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 74.3
Best Local Similarity 99.8
Matches 479; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Goddard, Audrey
                               ; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-000-157-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-063-547-155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 1320
SEQ ID NO 5
LENGTH: 1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  733
                                                                                                                                                                                                                                                                                                       285
                                                                                                                                                                                                                                                                                                                                       433
                                                                                                                                                                                                                                                                                                                                                                           345
                                                                                                                                                                                                                                                                                                                                                                                                           493
                                                                                                                                                                                                                                                                                                                                                                                                                                            405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   585
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                    q
                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                δ.
                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 엄
                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                       5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ç
```

672

584

ó

TYPE: DNA

ò g g

à

```
612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           732
                                                                            NUCLEIC
                                                                                                                                                                                                                                                                                                                                                                                                                        CAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACCTACAGCCACTGGCCCAGC 224
                                                                                                                                                                                                                                                                                                                                                                                                                                             404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGCTGCCCCAGCAAGGGCAGGACCACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   465 CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTCTTCTACCGGCGGCCATGCCATGCCGAGAGAGGGCACCCACAAGGGCTACTGCCTGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          373 TGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTGCCTCCCCTAGAGCCTGCTAGGCCCCAACCGCCACCAGAGTCCTGTAGGGCCAGTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GATGGACCCCTCAACAGCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGACTTG
                                                                                                                                                                                                                                                                                                                                                                               ;
0
                                                                            POLYPEPTIDES AND
                                                                                                                                                                                                                                                                                                                                           Length 1320;
                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                         Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 170
SEQ ID NO 155
LENGTH: 1320
                                                                                                                                                                                                                                                                                                                                       Query Match 74.3%; Score 478.4; DB 9; Best Local Similarity 99.8%; Pred. No. 3.9e-143; Matches 479; Conservative 0; Mismatches 1;
        APPLICANT: Gurney, Austin L.
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE FILE REFERENCE: P3230RLG.
CURRENT APPLICATION UNMER: US/10/063,616
CURRENT FILING DATE: 2002-05-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION NUMBER: US/10/063,502 CURRENT FILING DATE: 2002-05-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 155, Application US/10063502 Publication No. US20030023042A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           T: Godowski, Paul J.
T: Grimaldi, Christopher J
T: Gurney, Austin L.
T: Watanabe, Colin K.
T: Wood, William I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gerritsen, Mary E.
Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
, APPLICANT: Eaton, Dan L.
, APPLICANT: Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILE REFERENCE: P3230R1C1
                                                                                                                                                                                                                                                         ; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-063-616-155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-063-502-155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                        165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          733
                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δλ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ă
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      QQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 δy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA 464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        165 CAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACCTACAGCCACTGGCCCAGC 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   225 TGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCT 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTCTTCTACCGGCGCCATGCCATGCCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      585 CGCAGGCTGTACCGTGTTCCTTAGCTTGTGTGTGTGCGGCCCCGTGTGATGGGCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GATGGACCCCTCAACAGCAGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                465 CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 1320;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 478.4; DB 9;
Pred. No. 3.9e-143;
0; Mismatches 1;
PRIOR APPLICATION NUMBER: PCT/USO0/07532
PRIOR FILING DATE: 2000-03-21
PRIOR FILING DATE: 2000-06-02
PRIOR FILING DATE: 2000-06-02
PRIOR PLING DATE: 2000-06-02
PRIOR PLING DATE: 2000-06-22
PRIOR APPLICATION NUMBER: US 60/213,087
PRIOR PILING DATE: 2000-06-22
PRIOR PILING DATE: 2000-06-22
PRIOR PILING DATE: 2000-08-22
PRIOR FILING DATE: 2000-08-24
PRIOR PILING DATE: 2000-08-24
PRIOR PILING DATE: 2000-10-24
PRIOR PILING DATE: 2000-11-24
PRIOR PILING DATE: 2000-11-24
PRIOR PILING DATE: 2000-11-24
PRIOR PILING DATE: 2000-11-24
PRIOR PILING DATE: 2000-11-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 155, Application US/10063616
Publication No. US20030013855A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 74.3%;
Best Local Similarity 99.8%;
Matches 479; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Eaton, Dan L.
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Godowski, Paul
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; ORGANISM: Homo Sapien
US-09-747-259-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 6
US-10-063-616-155
                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 1320
```

405

345

g õ g ò 셤

ö

525

ò

셤

셤

ò

a

ò

APPLICANT:

Pred. No. 3.9e-143;

99.88;

9

```
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local
                                                                                                                                                                                                                                                                                                                                                   585
                                                                           225
                                                                                                                         285
                                                                                                                                                                   345
                                                                                                                                              433
                                                                                                                                                                                                               405
                                                                                                                                                                                                                                                            465
                                                                                                                                                                                                                                                                                                       525
                                165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ŏ
                                                                                                                                                                                                                                                                                                                           g
                                                     pp
                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                   õ
                                                                                                                                                                                                                                                                                                                                                                         g
                                  δ
                                                                           ò
                                                                                                Dβ
                                                                                                                        ò
                                                                                                                                                                   ò
                                                                                                                                                                                        g
                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                       ò
                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Gurney, Austin L.
APPLICANT: Watanabe, Colin K.
APPLICANT: Wacod, William I.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME
                                                                                                                                  224
                                                                                                                                                         372
                                                                                                                                                                               284
                                                                                                                                                                                                     432
                                                                                                                                                                                                                                                492
                                                                                                                                                                                                                                                                      404
                                                                                                                                                                                                                                                                                             552
                                                                                                                                                                                                                                                                                                                  464
                                                                                                                                                                                                                                                                                                                                        612
                                                                                                                                                                                                                                                                                                                                                               524
                                                                                                                                                                                                                                                                                                                                                                                     672
                                                                                                                                                                                                                                                                                                                                                                                                          584
                                                                                                                                                                                                                                                                                                                                                                                                                     CCCAGGCTGTACCGTGTTTCCTTAGCTTGTGTGTGTGTGCGGCCCCGTGTGATGGGCTAG 644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                      TGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCT
                                                                                                                                                                                                                                                                                                                   AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA
                                                                                                                                                                                                                                                                                                                               CAGACAGGCTCCCACATGGACCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACT
                                                                                                                                                                                                                                                                                                                                                                          GTCTTCTACCGGCGGCCATGCCATGGCGAAAGGGCCACAAAGGGCTACTGCCTGGAG
                                                                                                                                   165 CAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACCTACAGCCACTGGCCCAGC
                                                                                                                                                                                                    373 TGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCT
                                                                                                             ;
0
                                                                                        Length 1320;
                                                                                                             Indels
                                                                                rred. No. 3.9e-143;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Prior Application removed - See File Wrapper or Palm NUMBER OF SEQ ID NOS: 170
  Palm
   ö
 See File Wrapper
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION NUMBER: US/10/063,518 CURRENT FILING DATE: 2002-05-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 155, Application US/10063518 Publication No. US20030049735A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Godowski, Paul J.
Grimaldi, Christopher
                                                                                       Query Match 74.3%;
Best Local Similarity 99.8%;
Matches 479; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Filvaroff, Ellen
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Goddard, Audrey
 Prior Application removed
NUMBER OF SEQ ID NOS: 170
SEQ ID NO 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILE REFERENCE: P3230R1C1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-063-518-155
                                           ; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-063-502-155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 8
US-10-063-518-155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO 155
LENGTH: 1320
                                  LENGTH: 1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
                                                                                                                                                                               225
                                                                                                                                                                                                                                                                                                                  405
                                                                                                                                                                                                                                                                                                                                        553
                                                                                                                                                                                                                                                                                                                                                                                     613
                                                                                                                                                                                                                                                                                                                                                                                                           525
                                                                                                                                                                                                                                                                                                                                                                                                                                 673
                                                                                                                                                                                                                                                                                                                                                                                                                                                       585
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             733
                                                                                                                                                                                                                                                                                                                                                               465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                       õ
                                                                                                                                     ò
                                                                                                                                                         g
                                                                                                                                                                               Ş,
                                                                                                                                                                                                    g
                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                           Ġ.
                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                  δ
                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                                                                                                                          ò
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              225 TGCTGCCCCAGCAAAGGGCAAGACACCTCTGAGGAGCTGCTGAGGTGGAGCTGTGTGCCT 284
                                                                                                                                                                                                                                                                                                                                                                                                                                            672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           POLYPEPTIDES AND NUCLEIC
                                                                                                                                                                                                                                                                                                                                464
                                                                                                                                                                                                                                                                                                                                                                   612
                                                                                                                                                                                                                                                                                                                                                                                                       524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       432
                                                                                                                                                                                                                                                         404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                         284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             165 CAGGIGGIIGCAIICIIGGCAAIGGICAIGGGAACCCACACCIACAGCCACIGGCCCAGC
                                                                                                                                                                                                                                                                                                                            AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA
                                                                                                                                                                                                                                                                                                                                                   TGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCT
                                                                                                                                                                                                                                                         GATGGACCCTCAACAGCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTG
                                                                                                                                                                                                                                                                                              493 GATGGACCCCTCAACAGCAGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTG
                                                                                                                                                                                                                                                                                                                                                                                                       CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACT
                                                                                                                                                                                                                                                                                                                                                                                                                         613 CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACAGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTCTTCTACCGGCGGCCATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CGCAGGCTGTACCGTGTTCCTTAGCTTGTGTGTGTGCGGCCCCGTGTGATGGGCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACCTACAGCCACTGGCCCAGC
                                                     GIGCCICCCCIAGAGCCIGCTAGGCCCAACCGCCACCCAGAGICCTGTAGGGCCAGTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 1320;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: wood William I.

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPT
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERBNCE: P3230R4C1
CURRENT APPLICATION NUMBER: US/10/063,598
CURRENT FILING DATE: 2002-05-03
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 170
SEQ ID NO 155
LENGTH. 10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    74.3%; Score 478.4; DB 9; 99.8%; Pred. No. 3.9e-143; iive 0; Mismatches 1;
 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 155, Application US/10063598
Publication No. US20030050462A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Goddard, Audrey
Godowski, Paul J.
Grimaldi, Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Filvaroff, Ellen
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
   Matches 479; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Eaton, Dan L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; TYPE: DNA
; ORGANISM: HOMO
US-10-063-598-155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 9
US-10-063-598-155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches 479;
```

ö

Length 1320;

6 DB

74.3%; Score 478.4;

Query Match

672 584 732 644

524

```
APPLICANT: Yansura, Daniel
TITLE OF INVENTION: 1L-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
FILE REFERENCE: P1381R1C1P1C1(US)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            613 CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACT
                                                                                                                                                                                                                                                                                                                                                                                                                 CGCAGGCTGTACCGTGTTTCCTTAGCTTGTGTGTGTGTGCGGCCCCCGTGTGATGGGCTAG
      373 TGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCTGTGTGCCT
                                            285 GTGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCAGTGAA
                                                                 433 GTGCCTCCCTAGAGCCTGCTAGGCCCAACCGCCACCAGAGTCCTGTAGGGCCAGTGAA
                                                                                                                                             CAGACAGGCTCCCACATGGACCCCCGGGGCCACTCGGAGCTGCTCTACCACCAGACT
                                                                                                                                                                                                                                                                                                                                                                           525 GTCTTCTACCGGCGCCATGCCATGGCGAGGGCACCCACAAGGGCTACTGCCTGGAG
                                                                                                                            345 GATGGACCCCTCAACAGCAGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTG
                                                                                                                                                                                                          405 AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/09/908,827
CURRENT FILING DATE: 2001-07-18
PRIOR FULING DATE: 1998-05-15
PRIOR FILING DATE: 1998-05-15
PRIOR FILING DATE: 1998-12-23
PRIOR PLING DATE: 1998-12-23
PRIOR PELING DATE: 1998-12-23
PRIOR PELING DATE: 1999-04-21
PRIOR FILING DATE: 1999-04-21
PRIOR PLING DATE: 1999-04-26
PRIOR FILING DATE: 1999-05-14
PRIOR PLING DATE: 1999-12-23
PRIOR PLING DATE: 1999-12-3
PRIOR PLING DATE: 2000-01-11
PRIOR PLING DATE: 2000-01-11
PRIOR PLING DATE: 2000-03-21
PRIOR PRING DATE: 2000-03-21
PRIOR PLING DATE: 2000-03-21
PRIOR PLING DATE: 2000-03-21
PRIOR PLING DATE: 2000-06-22
PRIOR PRING DATE: 2000-06-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 5, Application US/09908827 Publication No. US20030054442Al GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Godowski, Paul
Grimaldi, Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VanLookeren, Menno
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Williams, P.Mickey
Wood, William
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Chen, Jian
APPLICANT: Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Vandlen, Richard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        L1, Hanzhong
Hillan, Kenneth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Watanabe, Colin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gurney, Austin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Fong, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-908-827-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT
                                                                                                                                                                                                                                                                                          465
                                                                                                                                                                                                                                                                                                                                                                                                                                                           585
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 11
                                                                                q
                                                                                                                                                                셤
                                                                                                                                                                                                                                                QQ
                                                                                                                                                                                                                                                                                                                                pp
                                                                                                                                                                                                                                                                                                                                                                                                                 d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                          ò
                                                                                                                            ŏ
                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
373 TGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCT 432
                                        GTGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCACAGAGTCCTGTAGGGCCAGTGAA 344
                                                                                                                          404
                                                                                                                                                                552
                                                                                                                                                                                                        464
                                                                                                                                                                                                                                                612
                                                                                                                                                                                                                                                                                          524
                                                                                                                                                                                                                                                                                                                                672
                                                                                                                                                                                                                                                                                                                                                                           584
                                                                                                                                                                                                                                                                                                                                                                                                                                                         644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AND NUCLEIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGCTGCCCCAGCAAAGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCT 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACCTACAGCCACTGGCCCAGC 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                         GATGGACCCCTCAACAGCAGGGCCATCTCCCCCTGGAGATATGAGTTGGAGAGACTTG
                                                                                                                                                                                                    AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA
                                                                                                                                                                                                                                              AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA
                                                                                                                                                                                                                                                                                                           GTCTTCTACCGGCGCCATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                  585 CGCAGGCTGTACCGTGTTTCCTTAGCTTGTGTGTGTGCGGCCCCGTGTGATGGGCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACT
                                                                                                                                                                                                                           .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 1320;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: WOOD, William I.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES
TITLE OF INVENTION: ACIDS ENCODING THE SAME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 478.4; DB 9;
Pred. No. 3.9e-143;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P2330R1C169
CURRENT PELLING DATE: 2002-08-26
CURRENT FILING DATE: 2002-08-26
PRIOR PELICATION NUMBER: US 10/006,867
PRIOR PELICATION NUMBER: US 00/006,867
PRIOR PELICATION NUMBER: US 09/380,137
PRIOR PILING DATE: 2000-08-24
PRIOR PILING DATE: 1999-08-25
PRIOR PILING DATE: 1999-08-25
PRIOR PILING DATE: 1999-08-66
PRIOR PAPLICATION NUMBER: PCT/US99/1252
PRIOR PAPLICATION NUMBER: US 09/380,137
PRIOR PAPLICATION NUMBER: US 09/380,137
PRIOR PLING DATE: 1999-08-06
PRIOR APPLICATION NUMBER: US 60/096,012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 155, Application US/10227693
Publication No. US20030050465A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 74.38;
99.88;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gurney, Austin L.
Watanabe, Colin K.
Wood, William I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Eaton, Dan L.
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches 479; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQ ID NOS: 170
SEQ ID NO 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-227-693-155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -10-227-693-155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT
                                                                                                                                                                                                                                            553
                                        285
                                                                                                                    345
                                                                                                                                                                                                                                                                                    465
                                                                                                                                                                                                    405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       313
                                                                                                                                                                                                                                                                                                                                                                      525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               225
g
                                        å
                                                                           g
                                                                                                                    ŏ
                                                                                                                                                       g
                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                            ద
                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                          염
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          금
                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
```

612

ø

```
585 CGCAGGCTGTACCGTGTTTCCTTAGCTTGTGTGTGTGCGCCCCCGTGTGATGGGCTAG 644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             405 AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA 464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 165 CAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACCTACAGCCACTGGCCCAGC 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         345 GATGGACCCCTCAACAGCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTG 404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                613 CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACT
                                                                                                                                                                          GTCTTCTACCGGCGGCCATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAG
                                                                                                                                                                                                    313 CAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACCTACACGCCACTGGCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     225 TGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            285 GIGCCICCCCTAGAGCCTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCCAGTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACUAGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: Compositions and Methods for the Treatment of TITLE OF INVENTION: Related Diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 1320;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             74.3%; Score 478.4; DB 9; 99.8%; Pred. No. 3.9e-143;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pred. No. 3.9e-143;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION NUMBER: US/10/213,181
CURRENT FILIG DATE: 2002-08-05
CURRENT FILING DATE: 2002-08-05
PRIOR PELICATION NUMBER: US 10/052,594
PRIOR FILING DATE: 2002-01-18
PRIOR PELICATION NUMBER: PCT/USO0/30873
PRIOR PELICATION NUMBER: US 60/177,118
PRIOR APPLICATION NUMBER: US 60/177,118
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 17, Application US/10213181 Publication No. US20030054484A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Grimaldi,Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity 99.8
79; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Watanabe, Colin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Goddard, Audrey
Godowski, Paul
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hillan, Kenneth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gurney, Austin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Wood, William
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Tumas,Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQ ID NOS: 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Zhang, Zemin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CRGANISM: Homo Sapien US-10-213-181-17
                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-213-181-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Sim
Matches 479;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT
                                                                                                                                                                          525
                                                                              465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                           셤
                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             염
                                                                                 ò
                                                                                                                                                                             ŏ
                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          113 CAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACACCTACAGCCACTGGCCCAGC 372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCGTA 464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACACTACAGCCACTGGCCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCAGTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GATGGACCCCTCAACAGCAGGCCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 1320;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 478.4; DB 9;
Pred. No. 3.9e-143;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Mismatches
                                    PRIOR PLILING DATE: 2000-10-26
PRIOR PLILING DATE: 1999-06-14
PRIOR FILING DATE: 1999-06-14
PRIOR PLILING DATE: 1999-06-14
PRIOR PELICATION NUMBER: 09/380,138
PRIOR PELICATION NUMBER: 09/380,138
PRIOR PELICATION NUMBER: 09/644,848
PRIOR PLILNG DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/644,848
PRIOR PLILNG DATE: 2000-08-22
PRIOR APPLICATION NUMBER: 09/864,280
PRIOR PLILNG DATE: 2001-03-22
PRIOR APPLICATION NUMBER: 09/864,280
PRIOR PLILNG DATE: 2001-05-10
PRIOR PLILNG DATE: 1999-05-14
PRIOR PLILNG DATE: 2001-05-10
PRIOR PLILNG DATE: 2001-05-10
PRIOR PLILNG DATE: 1999-05-14
PRIOR PLILNG DATE: 2000-05-10
PRIOR PLILNG DATE: 1999-05-14
PRIOR PLILNG DATE: 2000-05-10
PRIOR PLILNG DATE: 2000-03-01
PRIOR PLILNG DATE: 2000-03-02
PRIOR PLILNG DATE: 2000-03-02
PRIOR PLILNG DATE: 2000-03-02
PRIOR PLILNG DATE: 2000-03-02
PRIOR PLILNG DATE: 2000-03-03
PRIOR PLING DATE: 2000-03-03
PRIOR PLILNG DATE: 2000-03-03
PRIOR PLING DATE: 2000-03-03
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: PCT/US01/06520 PRIOR FILING DATE: 2001-02-28
                          LICATION NUMBER: 60/244,072 ING DATE: 2000-10-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            74.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 74.3
Best Local Similarity 99.8
Matches 479; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR FILING DATE: 2001-NUMBER OF SEQ ID NOS: 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA
ORGANISM: Homo Sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          us-09-908-827-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            405
```

432 344 492

284

Gaps

.; 0

552

엽

g ò 셤 ò 셤

ò

φ

```
US-10-063-599-155
                                                                                                                                                      APPLICANT:
APPLICANT:
                                                                                                                                                                                               APPLICANT:
APPLICANT:
                                                                                                                            APPLICANT:
                                                                                                                                                                                                                          APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                   APPLICANT
                                                                                                                                                                                                                                                                                                                                                    LENGTH
733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              585
 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                염
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                           TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME FILE REFERENCE: P3230R1C1 CURRENT APPLICATION NUMBER: US/10/063,567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA 464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        585 CGCAGGCTGTACCGTGTTTCCTTAGCTTGTGTGTGTGCGGCCCCGTGTGATGGGCTAG 644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                     525 GTCTTCTACCGGCGGCCATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            673 GICTICTACAGGCGGCCATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         165 CAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACCACCTACAGCCACTGGCCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               225 TGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCAGTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GATGGACCCCTCAACAGCAGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CAGACAGGCTCCCACATGGACCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        613 CAGACAGGTCCCACATGGACCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACT
                                                                                             585 CGCAGGCTGTACCGTGTTTCCTTAGCTTGTGTGTGTGCGGCCCCGTGTGATGGGCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 1320,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                    Prior Application removed - See File Wrapper or Palm NUMBER OF SEQ ID NOS: 170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 478.4; DB 9;
Pred. No. 3.9e-143;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                          Sequence 155, Application US/10063567 Publication No. US20030069394A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0,
                                                                                                                                                                                                                                                                           Goddard, Audrey
Godowski, Paul J.
Grimaldi, Christopher
                                                                                                                                                                                                                                                                   APPLICANT: GOGGALG,...
APPLICANT: GOGOWSKI, Paul J.
APPLICANT: GIAmaldi, Christopher; APPLICANT: Gurney, Austin L.
APPLICANT: Wood, William I.
'"DOTICANT: WOOD WILLIAM I.
                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT FILING DATE: 2002-05-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                74.3%;
ilarity 99.8%;
Conservative
                                                                                                                                                                                                                                      APPLICANT: Eaton, Dan L. APPLICANT: Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-063-567-155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches 479;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           465
          q
                                       ð
                                                                 셤
                                                                                             ò
                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
```

```
792
                                                                                                                                                                                                                                                                                                           POLYPEPTIDES AND NUCLEIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTCTTCTACCGGCGGCCATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CGCAGGCTGTACCGTGTTTCCTTAGCTTGTGTGTGTGCGGCCCCGTGTGATGGCCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      165 CAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACACCTACAGCCACTGGCCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      225 TGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GATGGACCCCTCAACAGCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACACAACCAGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 1320;
                                                                                                                                                                                                                                                                                                                                                                                              or Palm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 478.4; DB 9;
Pred. No. 3.9e-143;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                         TRANSMEMBRANE
ING THE SAME
                                                                                                                                                                                                                                                                                                                                                                                           Prior Application removed - See File Wrapper NUMBER OF SEQ ID NOS: 170 SEQ ID NO 155
                                                                                                                                                                                                                                                                                                                                         FILE REFERENCE: P3230RIC1
CURRENT APPLICATION NUMBER: US/10/063,599
CURRENT FILING DATE: 2002-05-03
                                                                                                   Sequence 155, Application US/10063599
Publication No. US20030078387A1
                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: SECRETED AND TRA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 15
US-10-212-912-17
'Sequence 17, Application US/10212912
'Publication No. US20030077737A1
                                                                                                                                                                                                                                          Grimaldi, Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  74.38;
                                                                                                                                                                  Filvaroff, Ellen
Gerritsen, Mary E.
Goddard, Audrey
                                                                                                                                                                                                                                                         Gurney, Austin L.
Watanabe, Colin K.
Wood, William I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                         Godowski, Paul
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA
ORGANISM: Homo Sapien
                                                                                                                                                       APPLICANT: Eaton, Dan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity
Matches 479; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                     GENERAL INFORMATION
```

ö

```
APPLICANT: Zhang, Zemin rITLE OF INVENTION: Compositions and Methods for the Treatment of Immune rITLE OF INVENTION: Related Diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA 612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           585 CGCAGGCTGTACCGTGTTTCCTTAGCTTGTGTGTGTGCGGCCCCGTGTGATGGGCTAG 644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                165 CAGGIGGIIGCATICTIGGCAAIGGICAIGGGAACCCACACCIACAGCCACTGGCCCAGC 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCT 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GIGCCICCCCIAGAGCCIGCIAGGCCCAACCGCCACCCAGAGICCIGIAGGGCCAGIGAA 344
                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GTCTTCTACCGGCGGCCATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              465 CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                     ô
                                                                                                                                                                                                                                                                                                                                                                                                    Length 1320;
                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                      DB 9;
                                                                                                                                                                                                                                                                                                                                                                                                    Score 478.4; DB 9;
Pred. No. 3.9e-143;
0; Mismatches 1;
                                                                                                                                                                                            PRIOR APPLICATION NUMBER: US 10/052,594
PRIOR FILING DATE: 2002-01-18
PRIOR APPLICATION NUMBER: PCT/US00/30873
PRIOR FILING DATE: 2000-11-10
PRIOR FILING DATE: 1999-12-23
NUMBER OF SEQ ID NOS: 24
LENGTH: 1320
                                                                                                                                           FILE REFERENCE: P3133R1C2
CURRENT APPLICATION NUMBER: US/10/212,912
CURRENT FILING DATE: 2002-08-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Search completed: May 12, 2003, 01:58:04
Job tlme : 98 secs
odowski,Paul
rimaldi,Christopher
                                                                                                                                                                                                                                                                                                                                                                                                    Ouery Match 74.3%;
Best Local Similarity 99.8%;
Matches 479; Conservative
                                                           Tumas, Daniel
Watanabe, Colin
Wood, William
                                              illan,Kenneth
                              irney, Austin
                                                                                                                                                                                                                                                                                                                                         TYPE: DNA
ORGANISM: Homo Sapien
US-10-212-912-17
                                                                                           APPLICANT
                                                                         APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  aq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                요.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
```

GenCore version 5.1.4_p5_4578 Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

May 12, 2003, 01:56:39 ; Search time 28 Seconds (without alignments) 552.773 Million cell updates/sec Run on:

US-10-037-591A-2 910 1 MYQVVAFLAMVMGTHTYSHW......BRRLYRVSLACVCVRPRVMG 161 Title: Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

Total number of hits satisfying chosen parameters: 283224 segs, 96134422 residues Searched:

283224

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

PIR_73:* Database :

pirl:* pir2:* pir3:* pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

STIMMARTES

	Description	hypothetical prote	immediate-early or	CVtotoxic T-lympho	cytotoxic T-lympho	N-methyl-D-asparta	serine/threonine p	sperm-binding glvc		_	_	`	- m	hypothetical prote	hypothetical prote	SH2-containing ino	qastric mucin MUC5	DNA topoisomerase	telomerase catalyt	gastric mucin MUČ5	DNA (cytosine-5-)-	ADAM 6 protein pre	collagen alpha 1(X	GT1 protein - mous	hypothetical prote	insulin-like growt				7
•		-											•			*														
S		; ; ; ;																												
RIE		: :																												
SUMMARIES	ID	T32515	B45351	149623	JC4628	178557	A47388	A60503	T25139	JQ0805	T48742	S11776	S27224	G85064	T14764	JC6118	S56015	T06818	T03844	JE0095	JC5210	148101	B31795	T30250	S46715	A39842	T34537	T19871	H70796	JC4889
	DB				7	7	7	-1	7	٦	7	П	7	7	7	7	7	N	7	7	7	~	7	7	7	~	~	~	7	7
	Length	162	151	150	147	1323	467	422	206	358	263	344	1323	446	868	1189	850	892	1132	1373	1612	735	482	1840	3744	240	294	419	602	1188
æ	Query Match	, –	10.2	0	9.5				9.8						•	8.3	8.5	8.2	8.2	8.5	8.5	8.1	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Score	107	92.5	91	86	83	81.5	80.5	78.5	78	77	77	76.5	75.5	75.5	75.5	74.5	74.5	74.5	74.5	74.5	73.5	73	73	73	72.5	72.5	72.5	72.5	72.5
	Result No.	ч	7	٣		ις.	9	7	œ	6	10	11	12	13	14	15	16	17	18	13	20	21	22	23	24	25	56	27	58	29

RESULT 2

Immediate-early protein 2 - saimiriine herpesvirus 1 (strain 11)
Nylternate names: hypothetical protein ORF13
Nylternate names: hypothetical protein 30-sep-1993 #text_change 16-Jul-1999
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Jul-1999
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Jul-1999
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Jul-1999
Nyltohology 179, 189-200, 1990
A;Title: Gene expression in cells infected with gammaherpesvirus saimiri: properties A;Reference number: A45351; MUID:91021021; PMID:1699352
A;Reference number: A45351
A;Rolecule type: mRNA

structural polypro	insulin-like growt	hydrogenase (EC 1.	probable epidermal	probable epidermal	hypothetical prote	stromelysin 3 (EC	hypothetical prote	hypothetical prote	cytochrome cc3 pre	iodide peroxidase	Bassoon protein -	hypothetical prote	probable flavoprot	radixin - mouse	polyferredoxin - M
JQ1979	148605	S11968	S27812	A43917	C72734	S13423	T45866	T30638	A39193	JN0550	T42730	T21334	AD0845	A41129	B69152
Н	7	_	7	7	~	7	7	ď	7	_	7	7	7	7	7
1254	238	360	1348	1348	166	488	564	1057	545	914	3942	148	479	583	108
8.0	7.9	7.9	7.9	7.9	7.9	7.8	7.8	7.8	7.7	7.7	7.7	7.7	7.7	7.7	7.6
72.5	72	72	72	72	71.5	7.1	7.1	7.1	70.5	70.5	70.5	70	70	7.0	69.5
30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

ALIGNMENTS

RESULT 1	
132515	
hypotheti	hypothetical protein C44B12.6 - Caenorhabditis elegans
C;Species	C; Species: Caenorhabditis elegans
C;Date: 2	C; Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 29-Oct-1999
C; Access1	ion: T32515
R; Tin-Wollam, A.	llam, A.
submitted	submitted to the EMBL Data Library, December 1997
A; Descrip	A; Description: The sequence of C. elegans cosmid C44B12.
A; Referen	nce number: 221183
A; Accessi	A; Accession: T32515
A; Status:	A;Status: preliminary; translated from GB/EMBL/DDBJ
A; Molecul	A; Molecule type: DNA
A; Residue	es: 1-162 <tin></tin>
A;Cross-r	references: EMBL:AF036692; PIDN:AAB88329.1; GSPDB:GN00022; CESP:C44E
A; Experim	A; Experimental source: strain Bristol N2; clone C44B12
C;Genetics:	w
A;Gene: C	A; Gene: CESP: C44B12.6
A; Map pos	sition: 4
A; Introns	A;Introns: 41/3; 95/3; 115/1
Query M	Match 11.8%; Score 107; DB 2; Length 162;
Best Lo	Best Local Similarity 26.2%; Pred. No. 0.011;
Matches	Matches 34; Conservative 23; Mismatches 39; Indels 34; Gaps
Qy 27	7 KGODTSEELLRWSTVPVPPLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLP 86
25 da	57 KSRDCSEPSIDKSSEVLPDQPLSERSICPYHHILNYDEKRIP 98
Qy 87	7 QDLYHARCLCPHCVSLQTG-SHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRL 145
66 qa	99 AAISEVECSCPH-VKVHGGIIHCEPMMYNMRVMLFDDSCDKYVERV 143
Oy 146	146 YRVSLACVCV 155
Db 144	: : 144 QKVALACVPV 153
-	

B12.6

9

ж ;

```
A Residues: 1-66, VV, 68-1323 (REZ)
A; Residues: 1-66, VV, 68-1323 (REZ)
A; Residues: 1-66, VV, 68-1323 (REZ)
A; Cross-references: GB:L31611; NID:9469066; PIDN:AAC37646.1; PID:9469067
A; Tishii, T.; Moriyoshi, K.; Suqihara, H.; Sakurada, K.; Kadotani, H.; Yokoi, M.; Akaz
J. Biol. Chem. 268, 2836-2843, 1993
A; Title: Molecular characterization of the family of the N-methyl-D-aspartate recepto
A; Reference number: A45219; MVID:93155102; PMID:8428958
A; Recession: D45219
A; Reference number: acid
A; Residues: preliminary; not compared with conceptual translation
A; Residues: 1265-1323 4ISH
A; Residues: 1265-1323 4ISH
A; Residues: brain
A; Note: sequence extracted from NCBI backbone (NCBIP:124265)
C; Superfamily: N-methyl-D-aspartate receptor 2D; glutamate receptor homology
F; 451-879/Domain: glutamate receptor homology <RRH>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Title: Developmental and regional expression in the rat brain and functional proper A;Reference number: 158158; MUID:94206533; PMID:7512349
A;Accession: 170557
                                                                                                                                                                                                                                                                                                               A;Introns: 69/2
C;Superfamily: saimiri herpesvirus immediate-early protein 2
C;Keywords: cytokine; alycoprotein: lymphocyte c;Keywords: cytokine; alycoprotein: lymphocyte <> 515.14 / Domain: signal sequence #status predicted <</pre>
F;15.14 / Domain: signal sequence #status predicted antigen 8 #status predicted 
F;15.14 / Product: cytotoxic T-lymphocyte-associated antigen 8 #status predicted cMAT>
F;60/Binding site: carbohydrate (Asn) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   N-methyl-D-aspartate receptor chain NMDAR2D-2 - rat
C;Species: Rattus norvegicus (Norway rat)
C;Date: 02-Aug-1996 #sequence_revision 02-Aug-1996 #text_change 21-Jan-2000
C;Accession: 178557; I58158; D45219
R;Monyer, H; Burnashev, N; Laurie, D.J.; Sakmann, B.; Seeburg, P.H.
Neuron 12, 529-540, 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ---YHARCLCPHCV----SLQTGSHMDPRGNSELLYHNQTVFYRR 127
                                                                                                                                                                                   A;Residues: 1-147 <rao>
A;Cross-references: GB:U35108; NID:g1244499; PIDN:AAA93253.1; PID:g1244500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELL7HNQTVFYRR 127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   60 NRSTSPWTLHRNEDPDRYPSVIWEAQCRHQRCVNAE--GKLDHHMNSVLIQQEILVLKRE 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              38 WSTVPVPPLEPAR---PNRHPESCRASEDGPL-----NSRAISPWRYELDRDLNRLPQ 87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Residues: 1-1323 <RES>
A; Cross-references: GB:L31612; NID:9469068; PIDN:AAC37647.1; PID:9469069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 1323;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2; Length 147;
               Σ.
               Painter, S.; Fanslow, W.; Spriggs,
                                                                    A,Title: Complete nucleotide sequence of the mouse CTLA8 A,Reference number: JC4628; MJID:96194901; PMID:8654948
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            39;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   40;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 83; DB 2;
Pred. No. 15;
7; Mismatches 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Status: preliminary; translated from GB/EMBL/DDBJA;Molecule type: mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; Score 86; DB 2;
; Pred. No. 0.86;
16; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PCHGEKGTHKGYCLERRLYRVSLACVCV 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              P----ESCPFTFRVEKML--VGVGCTCV 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9.1%;
larity 26.7%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 9.5%;
Best Local Similarity 27.3%;
Matches 24; Conservative 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity
Matches 35; Conserv
                                                                                                                                                                       A; Molecule type: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Accession: I58158
                                                                                                                                           A; Accession: JC4628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DI----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                            A;Gene: ctla8
                                                                                                                                                                                                                                                             C; Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δλ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cytotoxic T-lymphocyte-associated antigen 8 precursor - mouse
N;Alternate names: immediate-early protein 2 (ORF13) homolog
C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Date: 02-011-1996 #sequence_revision 02-Jul-1996 #text_change 26-Aug-1999
C;Accession: I49623
R;Rouvier, E.; Luciani, M.
J;Immunol. 150, 5445-5456, 1993
A;Title: CTLA-8, cloned from an activated T cell, bearing AU-rich messenger RNA instabil
A;Reference number: I49623; MUID:93294300; PMID:8390535
                                                                                                                                                                                                                                                                                            <u>ح</u>
                                                                                                                                                                                                                                                                                            υ.
                                                                                                                                                                                                                                                                                            B.; Newman,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ري
دي
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cytotoxic T-lymphocyte-associated antigen 8 precursor - mouse N;Alternate names: CTLA8 protein C;Species: Mus musculus (house mouse) C;Species: Mus musculus (house mouse) C;Date: 10-May-1996 #sequence_revision 19-Jul-1996 #text_change 26-Aug-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          57 SCRASEDGPLN--SRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNS 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            52 NRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPR 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cross-references: GB:L13839; NID:g293329; PIDN:AAA37490.1; PID:g293330
                     coss-references: GB:M60286; NID:9331040; PIDN:AAA46156.1; PID:9331042
                                                                                                                                                                                            A. Residues: 1-151 <ALB>
A. Residues: 1-151 <ALB>
A. Residues: 1-151 <ALB>
A. Cross-references: GB.K64346; NID:g60320; PIDN:CAA45636.1; PID:g60334
A. Cross-references: GB.K64346; NID:g60320; PIDN:CAA45636.1; PID:g60334
B. Albrecht, J.C.; Nicholas, J.; Biller, D.; Cameron, K.R.; Biesinger, B. Virol. 66, 5047-5058, 1992
A. Virol. 66, 5047-5058, 1992
A. Ritle: Primary structure of the herpesvirus saimiri genome.
A. Reference number: A37309; MUID:9233588; PMID:1321287
A. Reference number: A37309; MUID:9233588; PMID:1321287
A. Note: neither protein nor nucleotide sequence is given cyclenetics:
A. Gene: 13
C. Superfamily: saimiri herpesvirus immediate-early protein 2
C. Keywords: early protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                submitted to the EMBL Data Library, January 1992
A;Description: Primary structure of the herpesvirus saimiri genome.
A;Reference number: A36806
A;Accession: D36807
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GNSELLYHNQTVFYRRPC----HGEKGTHKGYCLERRLYRVSLACVCVRPRV 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 151;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 150;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  44; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Gene: Ctla-8
C;Superfamily: saimiri herpesvirus immediate-early protein 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  115 ELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCV 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10.2%; Score 92.5; DB 1;
llarity 27.7%; Pred. No. 0.23;
Conservative 19; Mismatches 43;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Status: preliminary; translated from GB/EMBL/DDBJ
Molecule type: mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10.0%; Score 91; DB 29.7%; Pred. No. 0.31 ive 17; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 30; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Residues: 1-150 <RES>
A; Residues: 1-151 <NIC>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Accession: I49623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local Sin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ctla-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A.Cross-ref
C,Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ŏ
```

δy a

a à

7;

us-10-037-591a-2.rpr

```
hydrogenase (EC 1.18.99.1) small chain precursor - Azotobacter vinelandii
N.Alternate names: hydrogenlyase; [NiFe]hydrogenase
C.Species: Azotobacter vinelandii
C.Species: Azotobacter vinelandii
C.Saccession: J00805
R.Menon, A.L.; Stults, L.W.; Robson, R.L.; Mortenson, L.E.
Gene 96, 67-74, 1990
A:Title: Cloning, sequencing and characterization of the [NiFe]hydrogenase-encoding s A:Reference number: J00805; MUID:91092503; PMID:2265761
A:Accession: J00805
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A pathway: hydrogen metabolism
A;Note: contains iron-sulfur and nickel
A;Note: contains iron-sulfur and nickel
C;Superfamily: hydrogenase (NiFe) small chain
C;Superfamily: hydrogenase (NiFe) small chain
C;Keywords: 3Fe-45; 4Fe-45; heterodimer; hydrogen metabolism; iron-sulfur protein; me
F;1-45/Domain: signal sequence #status predicted <SIG>
F;1-45/Domain: signal sequence #status predicted <SIG>
F;2-25,5,160,194/Bhinding site: 4Fe-45 cluster (Cys) (covalent) #status predicted
F;232,235,260,266/Binding site: 3Fe-45 cluster (Cys) (covalent) #status predicted
                                                                                                                                 hypothetical protein T22H6.1 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Daccession: T25199 #sequence_revision 15-oct-1999 #text_change 18-Feb-2000
C;Accession: T25199
R;McMurray, A.
R;McMurray, A.
R;McMurray, A.
R;McGreence number: Z19986
A;Reference number: Z19986
A;Residues: T25139
A;Residues: 1-206
A;Residues: 1-206
A;Residues: 1-206
A;Resperimental source: Clone T22H6
C;Genetics: Cone T22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Note: part of this sequence, including the amino end of the mature protein,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -----GKCNSKKLDTIS 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   62 EDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELL--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         78;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        65;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18 SHWPSCCPS-----KGQDTSEELLRWSTVPVPPLEPARPNRHPESCRA---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8.6%; Score 78; DB 1; Length 358;
11.9%; Pred. No. 11;
ve 19; Mismatches 35; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Molecule type: DNA
A;Residues: 1-358 <MEN>
A;Cross-references: GB:M33152; NID:g142310; PIDN:AAA82505.1;
A;Experimental source: strain OP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FECEHLRYQVRVLMWDDSCN-----TFREHVETIALACIPV 189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -----YHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCV 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        46;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SHYSPIAPSYQQALLRLQVKGLKHGEQITKSS------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8.6%; Score 78.5; Elarity 20.0%; Pred. No. 5.8; Conservative 21; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          107 AETPLRDRALCKFEYVLNYNPKRLPAALTEVKCSC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C; Complex: heterodimer; large and small chain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; Map position: X
A; Introns: 19/2; 80/3; 128/3; 162/3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21.98;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 21.9%
Matches 37; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Gene: CESP:T22H6.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Simi
Matches 33;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Gene: hoxK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C; Function:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       qq
                                                                                                                                                                                                                                                                                                                                                                              C; Species: Rattus norvegicus (Norway rat)
C; Date: 21-Jan-1994 #sequence_revision 18-Nov-1994 #text_change 05-Nov-1999
C; Date: 21-Jan-1994 #sequence_revision 18-Nov-1994 #text_change 05-Nov-1999
C; Accession: A47388
R; Patriotis, C.; Makris, A.; Bear, S.E.; Tsichlis, P.N.
Proc. Natl. Acad. Sci. U.S.A. 90, 2251-2255, 1993
A; Title: Tumor progression locus 2 (Tpl-2) encodes a protein kinase involved in the progression: A47388
A; Reference number: A47388; MUID:93211939; PMID:7681591
A; Accession: A47388
A; Advantanary
A; Molecule type: nucleic acid
A; Residues: 1-467 cARP
A; Cross-references: GB:M94454; NID:9207082; PIDN:AAA42185.1; PID:9207083
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      R;Kinloch, R.A.; Ruiz-Seiler, B.; Wassarman, P.M.
Dev. Biol. 142, 414-421, 1990
A;Title: Genomic organization and polypeptide primary structure of zona pellucida glycop A; Reference number: A60503; MuID:91078540; PMID:2257975
A;Accession: A60503
A;Molecule type: DNA
A;Residues: 1-422 < KIN>
A;Cross-references: GB:M63629
A;Note: the authors translated the codon CAA for residue 251 as Glu, and AGG for residue C;Comment: This sulfated glycoprotein in the zona pellucida of the oocyte is a receptor C;Superfamily: sperm-binding glycoprotein 273; ZP domain homology
C;Keywords: glycoprotein; oocyte
F;45-300/Domain: ZP domain homology < ZPH>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ņ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sperm binding glycoprotein ZP3 precursor - golden hamster
N;Alternate names: sperm receptor; zona pellucida glycoprotein ZP3
C;Species: Mesocricetus auratus (golden hamster)
C;Date: 10-Sep.1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
                                            -- 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A, Experimental source: liver
A, Note: sequence extracted from NCBI backbone (NCBIN:128133, NCBIP:128134)
C, Superfamily: protein kinase homology
F;136-388/Domain: protein kinase homology <KIN>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  24 CPSKGQ--DISELLRWSIVPVPPLEPAR-------PNRHPESCRASEDGP 65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24 CPSKGQDTSEELLRWSTV-----PVPPLEPARPNRH--PESCRASEDGPLNSRAISPWR 75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            37; Indels 31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 467;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            76 YELDRDLN------VSLQDLYHARCLCP--HC----VSLQTGSHM 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1; Length 422;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       66 INSRAISP--WRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRG 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      109 LLNMVISPQNGRYQIDSDVLLVPWKLTYR-----SIGSGFVPRG 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
37;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8.8%; Score 80.5; Dl
29.7%; Pred. No. 7.9;
ive 14; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 81.5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9.0%;
                                                                                                                                                                                                                                                                                                                                                        serine/threonine protein kinase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ouery Match 8.8
Best Local Similarity 29.7
Matches 33; Conservative
                                                                                                                                            |: || :|
---GDLGTRRG 1312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                   128 PCHGEKGTHKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Sim
Matches 33;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                             1261
                                                                                                                                                                          1305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 7
                             g
                                                                                                                                                                  셤
                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
```

9

ä

11;

was con

WPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASEDGPLNSRAISPWRYELD	C; Superfamily: hydrogenase C; Keywords: 3Fe-45; 4Fe-4; F;1-34/Domain: signal seq
WGSCA	F;35-34/Froduct: nydroger F;51,54,146,180/Bunding si F;218,221,246,252/Binding F;261,280,283/Binding site
AGQFVEH	Query Match Best Local Similarity Matches 36; Conservat Qy 20 WPSCCPSKGQDTSEEI
RESULT 10 T48742 hvoothetical protein 8D4.160 (imported) – Neurospora crassa	Db 143 WGSCAOV
n 05-	172
Staton: 184742. Staton: 184742. Staton: A Aign, V.; Hoheisel, J.; Brandt, P.; Fartmann, B.; Holland, R.; Nyakatura ted to the Protein Sequence Database, April 2000 manaper: Z24541	Oy 125 YRRPCH
A; Accession: 140742 A; Status: preliminary A; Molecule type: DNA A; Residues: 1-263 < SCH> A; Residues: 1-263 < SCH> A; Residues: 1-263 < SCH> A; Experimental source: cosmid contiq 8D4; strain 74	RESULT 12 827224 N-methyl-D-aspartate rece C; Species: Mus musculus (
tics: NCSP:8D4.160 position: 2 ons: 32/3; 76/1; 133/1 rfamily: Neurospora crassa hypothetical protein 8D4.160	C;Date: 25-Feb-1994 #seque C;Accession: S2724 R;Ikeda, K.; Nagasawa, M.; FEBS Lett. 313, 34-38, 199; A;Title: Cloning and expre
Ouery Match 8.5%; Score 77; DB 2; Length 263; Best Local Similarity 25.4%; Pred. No. 10; Matches 34; Conservative 11; Mismatches 45; Indels 44; Gaps 8;	A; Reference number: 52/22 A; Accession: 527224 A; Status: preliminary A; Molecule type: mRNA
20 WPSCCPSKGQDTSEELLRWSTVPVPPLEPARPN-RHPESCRASE 62 	A, Residues: 1.1323 < LKE> A, Cross-references: BMBL: C, Superfamily: N-methyl-DC; Keywords: transmembrane
63DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPH 98 103 GSGWTRPWDGPLPCQCRGHALYVWENSPSYVDRSNANAQQVLGALKRHARCYCPRQLSSL 162	P:451-8/9/Domain: glucama Query Match Best Local Similarity
99CVSLQTGSHMD 109 163 DGLCVRCTTGRQTD 176	; ; ;
SULT 11	
enase (EC 1.18.99.1) (uptake) small chain precursor - Azotobacter chroococcum	DD 1255 TSRSLEDLSSCPRAAI
1es: Azotobacrer chroococcum 1.10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 20-Apr-2000	Qy 122 TVFYRRPCHGEKGTHI
Siston: Sil//b ', C.M.; Garg, N.; Garg, R.P.; Tibelius, K.H.; Yates, M.G.; Arp, D.J.; Seefeldt,	L. Db 1305GDLGTR
e: The identification, characterization, sequencing and mutagenesis of the genes rece number: \$11776; MUID:91014699; PMID:2215219	RESULT 13
A; Accession: 211/76 A; Molecule type: DNA A; Residues: 1-344 <por> A; Cross-references: EMBL: X52961; NID: 938713; PIDN: CAA37133.1; PID: 938714 A: Experimental source: strain MCD1</por>	etical des: And 16-Fe
tics: : hups lav. heterodimer: large and small chain	R; anonymous, The European Nature 402, 769-777, 1999 A:Title: Sequence and ana
tion: way: hydrogen metabolism	A; Reference number: A8500 A; Accession: G85064
יב: כסוורמזווא דוסוו-אחזוחז מווס ווזכאבי	בייייייייייייייייייייייייייייייייייייי

```
.n Union Arabidopsis Genome Sequencing Consortium, The Cold Sp _{\rm 9}
se (NiFe) small chain
4S; heterodimer; hydrogen metabolism; iron-sulfur protein; me
quence #status predicted <SIG.
enase (uptake) small chain #status predicted <MAT>
site: 4Fe-4S cluster (Cys) (covalent) #status predicted
g site: 4Fe-4S cluster (His, Ser, Cys, Cys) (covalent) (type
te: 3Fe-4S cluster (Cys) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ression of the epsilon-4 subunit of the NMDA receptor channel 24; MUID:93050214; PMID:1385220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .; Mori, H.; Araki, K.; Sakimura, K.; Watanabe, M.; Inoue, Y.
992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          alysis of chromosome 4 of the plant Arabidopsis thaliana.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ′,
                                                                                                                                                                                                                                       11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Description 2D; glutamate receptor homology e protein ate receptor homology <GRH>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       905150 [imported] - Arabidopsis thaliana
haliana (mouse-ear cress)
uence_revision 16-Feb-2001 #text_change 16-Feb-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ience_revision 01-Sep-1995 #text_change 17-Mar-1999
                                                                                                                                                                                                                                                                                                         CLCPHCVSLQTG-----SHMDPRGNSELLY----HNQTVF 124
                                                                                                                                                                                                                                                                                                                                                                                                        | | : | | : : | : : | : : | : : - CPPIAEVMIGVITYMLTFGKLPELDRQGRPKMFYGQRIHDKS-- 221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -----YHARCLCPHCV----SLQTGSHMDPRGNSELLYHNQ 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                              ILLRWSTVPVPPLEPARPNRHPESCRASEDGPLNSRAISPWRYELD 79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PAR----PNRHPESCRASEDGPL-----NSRAISPWRYELDRD 81
                                                                                                                                                                                                                                       78; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8.4%; Score 76.5; DB 2; Length 1323;
25.5%; Pred. No. 58;
ative 6; Mismatches 41; Indels 55;
                                                                                                                                                                                    8.5%; Score 77; DB 1; Length 344; 21.3%; Pred. No. 13; ative 21; Mismatches 34; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -GEKGTHKGYCLERRLYRVSL-----ACVCVR 156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 pptor epsilon-4 chain - mouse
(house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     :|
RRG 1312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HKG 138
```

us-10-037-591a-2.rpr

```
Search completed: May 12, 2003, 02:01:27 Job time : 30 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               QHSKGRDYRDNTELPHHGK 1175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            64 GPLNS-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1157
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C; Accession: JC6118
R; Damen, J.E.; Liu, L.; Rosten, P.; Humphries, R.K.; Jefferson, A.B.; Majerus, P.W.; Kry Proc. Natl. Acad. Sci. U.S.A. 93, 1689-1693, 1996
A;Title: The 145-KDa protein induced to associate with Shc by multiple cytokines is an i A;Reference number: JC6118; MUID:96202338; PMID:8643691
                                                                                                                                                                                                                                                                                                                                                                        ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                     A;Cross-references: GB:NC_001268; NID:97267274; PIDN:CAB81057.1; GSPDB:GN00140 C;Genetics: A;Gene: A74905150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Species: Homo sapiens (man)
Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 20-Sep-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C.Date: 23-Mar-1997 #sequence_revision 09-May-1997 #text_change 12-Feb-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      305 APGPGQQVHYQGHTHQSP--VYYVPGSVPGNHMVQQGNHMVQPGNHMVQPVQMPGQYLQ 362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 249 GSTSSAPVMRISTPELPPPVFIKPESPEPVSTPKSNPQPEQVMQQSNLPVNSQ----WQY 304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    77 E-----LDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSEL------ 116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 76 YELDRDINRLPQDLYHARCLCP-----HCVSLQTGSHMDPRGNSELLYHNQTVFY 125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  739 SSWRECSEACGGGEOORLV---TCPEPGLCEEALRPN----TTRPCNTHPCTOWVVGPW- 790
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28 GODTSEELLRWSTVPVPP---LEPARP-----NRHPESCRASEDGPLNSRAISPWRY 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18 SHWPSCCPSKGQDTSEELLRWSTVPVPPL--EPARPNRHPESCRASEDGPLNSRAISPWR 75
                                                                                                                                                                                                                                                                                                                                                                    44; Indels 37; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C, Accession: T14764
R;Wambutt, R.; Heubner, D.; Mewes, H.W.; Gassenhuber, J.; Wiemann, submitted to the Protein Sequence Database, August 1999
A;Reference number: Z18181
A;Reference: EMB: Z110226
A;Residues: 1-898 < WAM>
A;Residues: 1-898 < WAM>
A;Residues: J-898 < WAM>
A;Residues: J-808 < WAM
                                                                                                                                                                                                                                                                                          DB 2; Length 446;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 2; Length 898;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SH2-containing inositol phosphatase (EC 3.1.3.-) - mouse N:Alternate names: Shc-associated 145K protein C;Species: Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                hypothetical protein DKF2p434H204.1 - human (fragment)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 48;
                                                                                                                                                                                                                                                                                                                           ; Pred. No. 24;
21; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 75.5; DE
Pred. No. 48;
9; Mismatches
                                                                                                                                                                                                                                                                                      Score 75.5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Status: nucleic acid sequence not shown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 24.4%;
Matches 31; Conservative
                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              117 LYHNQTVFYRRP 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         363 QYHHVPMGYHQP 374
                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 30; Conserv
A; Molecule type: DNA
A; Residues: 1-446 <STO>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   126 RRPCHGE 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              832 SRPCGTE 838
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Molecule type: mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    791 -----
                                                                                                                                                                                                       A; Map position: 4
                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               쉽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  . q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
```

```
A; Residues: 1-1189 < DAM>
A; Experimental source: hemopoietic cell
C; Comment: This enzyme is a tyrosine-phosphorylated protein. It plays an important ro
15. Superfamily: SH2 homology
C; Superfamily: SH2 homology
C; Keywords: cytokine; phosphoric monoester hydrolase
C; Keywords: cytokine; cytokine; phosphoric monoester hydrolase
C; Keywords: cytokine; cytokine; cytokine; cytokine; cytokine; collase
C; Keywords: cytokine; c
```

n 5.1.4_p5_4578 Compugen Ltd.
version - 2003
GenCore (c) 1993
Copyright

model	
N N	
using	
search,	
protein	
٠	
protein	
₹	

May 12, 2003, 01:39:20 ; Search time 20 Seconds (without alignments) 333.884 Million cell updates/sec Run on:

US-10-037-591A-2 910 1 MYQVVAFLAMVMGTHTYSHW......ERRLYRVSLACVCVRPRVMG 161 Title: Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

112892 seqs, 41476328 residues Searched:

112892 . Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

SwissProt_40:* Database : Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		Description	Q9h293 homo sapien	ф рошо	Q9uhf5 homo	mus m		_					_			P23491 mesocricetu		O55098 mus musculu	Q9r0b6 mus musculu	P18190 azotobacter		P30600 exophiala d		Q9nj15 branchiosto			. 015399 homo sapien	σ,	P38811 saccharomyc	P24592 homo sapien	~	Q9h3t2 homo sapien	_	15230 hom	P47880 mus musculu
SUMMARIES		QI.	117E_HUMAN	117C_HUMAN	I17B_HUMAN	I17B_MOUSE	117F_HUMAN	I17B_MESAU	IL17_HUMAN	VG13_HSVSA	IL17_RAT	VG13_HSVSC	IL17_MOUSE	NME4_RAT	M3K8_RAT	ZP3_MESAU	MBHS_AZOVI	ST10_MOUSE	LMG3_MOUSE	MBHS_AZOCH	TLR7_MOUSE	CHS1_EXODE	NME4_MOUSE	PCK5_BRACL	TERT_HUMAN	DNM1_PARLI	NME4_HUMAN	CA1B_RAT	YHP9_YEAST	IBP6_HUMAN	HMWC_DESVH	SM6C_HUMAN	POLS_EEVVM		IBP6_MOUSE
	1	. BB	1	٦	٦	, -1	-4	Н	~	Н	۳4		~	-1	-	Т	П	-	~	-	Н	Н	٦	-	-	Н	-		-	7	-4	~	П	-	Н
	:	Match Length DB	177	197	180	180	153	178	155	151	150	151	158	1323	467	422	358	996	1581	344	1050	886	1323	1696	1132	1612	1336	482	3744	240	545	930	1254	3695	238
d	Query	Match	98.7	ω.	•	ë.	13.2	'n	10.6	٠			9.5	•	•		•	8.5	8.5	8.5			8.4	8.4	8.5		•	٠	•	•	8.0		8.0	8.0	7.9
		Score	G)	165.5		123.5	120.5	116.5	o	92.5		89.5	86	83	81.5	80.5	78	77.5	77.5	77	77	76.5	9	76.5	•	4	74	73	73	72.5	72.5	72.5	72.5	72.5	72
	Result	Q	٦	7	m	4	ĸ	9	7	ω.	σ	10	. 11	12	. 13	14	15	16	17	18	19	20	21	22	23								31		

P24347	P35419	Q824c5	608600	P26043	060519	P27424	P97515	. P03103	095260	E Q60865 mus musculu	Q8zmj7	SENG	ENIS
MM11_HUMAN	PERT_MOUS	FLRD_SALT	YQS1_CAEE	RADI_MOUS	SMSB_MOUS	MFA2_BOVI	A2HS_MERU	VL1_BPV1	ATE1_HUMA	P137_MOUS	FLRD_SALTY	AT TOWNENIES	SEPTIC
₩	7	-	П	٦	Н	-1	٦	Ļ	Н		г		
488	914	479	480	583	1093	183	348	495	518	929	479		
7.8	7.7	7.7	7.7	7.7	7.7	7.6	7.6	7.6	7.6	7.6	7.6		
71	70.5	70	70	7.0	70	69.5	69.5	69.5	69.5	69.5	69		
34	35	36	37	38	39	40	41	42	43	44	45		

tion on lits way cial	0;	
### TITE_HUMAN STANDARD; PRT; 177 AA. 117E_HUMAN STANDARD; PRT; 177 AA. 99H293; 15-JUN-2002 (Rel. 41, Created) 15-JUN-2002 (Rel. 41, Last sequence update) 15-JUN-2002 (Rel. 41, Last sequence update) 15-JUN-2002 (Rel. 41, Last sequence update) 16-JUN-2002 (Rel. 41, Last update) 16-JUN-2002 (Rel. 41, Last update) 17-JUN-2002 (Rel. 41, Last update) 18-JUN-2002 (Rel. 41, Last update) 18-JUN-2002 (Rel. 41, Last updat	Score 898; DB 1; Length 177; Pred. No. 3.3e-78; 0; Mismatches 0; Indels 0; Gaps	OVVAPLAMVMGTHTYSHWPSCCPSKGODTSEELLRWSTVPVPPLEPARPNRHPESCRASE 62
	Owery Match Best Local Similarity 100.08; Matches 159; Conservative	3 OVVAFLANYMGTHTYSHWPSCC
: 0.00000000000000000000000000000000000	OME	Qy Db

~

```
142
                                                      q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           7;
                                                                                                                                                                                                                                                                                                                                                                             This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the Buropean Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way
                                                                                                                                                                                                                                                                                                                                                                                                                 modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              58 CRASEDGPL-----NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGS 106
       Dowd P.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              57
                                                                                                                                                                                                                         MEDLINE=20105548; PubMed=10639155;
Li H., Chen J., Huang A., Stinson J., Heldens S., Foster J., Dowd P.
Gurney A.L., Wood W.I.;
"Cloning and characterization of IL-17B and IL-17C, two new members
of the IL-17 cytokine family.";
Proc. Natl. Acad. Sci. U.S.A. 97:773-778(2000).
                                                                                                                                                                                                                                                                                                   27 HPHSHGTPHCYS----AEELPLGQAPPHLLARGAKWGQALPVALVSSLEAASHRGRHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15 HTYSHWPSCCPSKGQDTSEEL------LRW-STVP---VPPLEPARPNRHPES
DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT
                                                                                                                                                                    Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         107 HMDPRGNSELLYHNQTVFYRRPCHGEKG -- - THKGYCLERRLYRVSLACVCVRPR 158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            37;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 197;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BY SIMILARITY.

BY SIMILARITY.

H -> R (IN REF. 2).

BAE0152E18DE7D08 CRC64;
                                                                                                                    15-JUN-2002 (Rel. 41, Created)
15-JUN-2002 (Rel. 41, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
Interleukin-17C precursor (IL-17C) (Cytokine CX2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            70;
                                             139 VEYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
                                    VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .8e-09;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INTERLEUKIN-17C.
                                                                                                    Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18.2%; Score 165.5; 29.7%; Pred. No. 7.8
                                                                                                   197
                                                                                                                                                                                                                                                                                                                                                                                                                                       or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pred.
                                                                                                    PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL; AF152099; AAF28105.1; -. EMBL; AF142410; AAG27921.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              50 H
21765 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                    STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Genew; HGNC:5983; IL17C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        187
197
189
191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     134 1
50
197 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local Similarity
Les 52; Conserv
                                                                                                                                                                                                                  SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cytokine; Signal.
                                                                                                                                                                                               NCBI_TaxID=9606;
                                                                                                            Q9POM4; Q9HC75;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MIM; 604628;
                                                                                                    HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Loc
Matches
                                    123
                4
63
                                                                                   RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                a
                                    õ
```

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the Buropean Bloinformatics Institute. There are no restrictions on its use by non-profit institutions along as its content is in no way
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rieder M.J., Carrington D.P., Chung M.-W., Lee K.L., Poel C.L., Yi Q., Nickerson D.A.;
Submitted (JUN-2001) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TISSUE SPECIFICITY: Expressed in adult pancreas, small intestine, stomach, spinal cord and testis. Less pronounced expression in prostate, colon mucosal lining, and ovary.
SIMILARITY: BELONGS TO THE IL-17 FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         J., Dowd P.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Moore E.E., Presentl S., Garrigues U., Guilbot A., LeGuern E., Smith D., Yao L., Whitmore T.E., Gilbert T., Kuestner R.E.; "Identification of a novel IL-17 related factor: demonstration of neuronal expression and evaluation as a candidate for the chromosome 5q-linked form of Charcot-Marie-Tooth disease."; Submitted (DEC-1999) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE-20105548; PubMed-10639155; Li H., Chen J., Huang A., Stinson J., Heldens S., Foster J., Dowd P. Li H., Wood WI.; Cluning A.L., Wood WI.; "Cloning and characterization of IL-17B and IL-17C, two new members of the IL-17 cytokine family."; Proc. Natl. Acad. Sci. U.S.A. 97:773-778(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       necrosis factor alpha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Lehner J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Carrell J.A., Ebner R.; "A novel cytokine receptor-ligand pair. Identification, molecular characterization, and in vivo immunomodulatory activity."; J. Biol. Chem. 275:19167-19176(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
                                                                                                                                                                                                                                                                                                                                         15-JUN-2002 (Rel. 41, Last sequence update)
15-JUN-2002 (Rel. 41, Last annoctation update)
Interleukin-17B precursor (IL-17B) (Cytokine-like protein ZCYTO7)
(Neuronal interleukin-17 related factor) (Interleukin-20).
FTAAL-NSVRLLQSLLVLRRRPCSRDGSGLPTPGAPAFHTEFIHVPVGCTCVLPR 195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Olsen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A. MEDINE-201718; PubMed-10749887; ST.Y. Ullrich S.J., Zhang J., Connolly K., Grzegorzewski Shi Y., Ullrich S.J., Zhang T., Hodge V., Fisher C.L., Ols Ruben S.M., Knyazev I., Cho Y.H., Kao V., Wilkinson K.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A. Presentl S., Gilbert T., Whitmore T., Foster D., Hart C., Martinez T., Affman R., O'Hara P.; Submitted (SEP-1999) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Zhang W., Wang J., Cao X.;
"Novel cytokine homology with interleukin-17.";
Submitted (DEC-1998) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -i. FUNCTION: Stimulates the release of tumor necros and IL-lbeta from the monocytic cell line THP-1.
                                                                                                                                                                                                                                  A
                                                                                                                                                                                                                                  180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IL17B OR ZCYTO7 OR NIRF OR IL20.
                                                                                                                                                                                                                                                                                                             .5-JUN-2002 (Rel. 41, Created)
                                                                                                                                                                                                                                      STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mammalia; Euther:
NCBI_TaxID=9606;
                                                                                                                                                                                                                          117B_HUMAN
Q9UHF5:
                                                                                                                                                                                                      117B_HUMAN
```

```
EMBL; AF184970; AAF01319.1; --
EMBL; AF218726; AAG44135.1; --
EMBL; AF250308; AAK3747.1; --
EMBL; AK003506; BAB22836.1; --
EMBL; BAC002271; AAH02271.1; --
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cytokine; Glycoprotein; Signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                76 S
20309 MW;
                                                                                                                                                                                                                                                                          Nature 409:685-690(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarica
Witches 29; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MGD; MGI:1928397; Ill7b.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 180 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             117F_HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CONFLICT
CONFLICT
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     I17F_HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT
        අ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ID AC DIT OF CONTRACT OF CONTR
                                                                                                                                                                                                                                                                                                                                                                                                                                                         NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYR 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Presnell S., Gilbert T., Whitmore T., Foster D., Hart C., Lehner J., Martinez T., Hoffman R., O'Hara P., Submitted (SEP-1999) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                chromosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRAIN-CS7BL/64; TISSUE-Embryo;
MEDLINE-21085660; PubMed=11217851;
Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
Alzawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,
Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 090XT6; 099MX3; 09CTI4;

15-JUN-2002 (Rel. 41, Last sequence update)

15-JUN-2002 (Rel. 41, Last sequence update)

15-JUN-2002 (Rel. 41, Last annotation update)

Interleukin-17B precursor (IL-17B) (Cytokine-like protein ZCYTO7)

(Neuronal interleukin-17 related factor) (Cytokine CXI).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Moore E.E., Presnell S., Garrigues U., Guilbot A., LeGuern E., Smith D., Yao L., Whitmore T.E., Gilbert T., Kuestner R.E.; "Identification of a novel IL-17 related factor: demonstration of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                   (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                     .
.
                                                                                                                                                                                                                                                                                                                                                                        13.8%; Score 125.5; DB 1; Length 180;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          neuronal expression and evaluation as a candidate for the 5q-linked form of Charcot-Marie-Tooth disease."; Submitted (DEC-1999) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Zhang W., Cao X.; Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                            N-LINKED (GLCNAC. . .) (PC
F1B0BC1446D0B14A CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                   39:
                                                                                                                                                                                                                                                                                                                                                                                           ; Pred. No. 4.3e-05; 16; Mismatches 39
                                                                                                                                                                                                                             POTENTIAL.
INTERLEUKIN-17B.
                                                                                                                                                                                                                                                                    BY SIMILARITY.
BY SIMILARITY.
or send an email to license@isb-sib.ch)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        127 RPCHGEKGTHKGYCLERRLYR-VSLACVCV 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                152 RLCPPPPRT -- GPCRQRAVMETIAVGCTCI 179
                                                       Cytokine; Glycoprotein; Signal
                                                                                                                                                                                                                                                                                                                                 20437 MW;
                                      EMBL; AF184969; AAF01318.1;
                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity 33.3% tes 30; Conservative
                                                                                                                                                                  HGNC:5982; IL17B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               L17B OR ZCYTO7 OR NIRF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                             180 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRAIN-BALB/C;
                                                                                                                                                                                   MIM; 604627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     117B_MOUSE
                                                                                                                                                                                                                                                                                                          CARBOHYD
SEQUENCE
                                                                                                                                                                                                                                                                    DISULFID
                                                                                                                                                                                                                                                                                           DISULFID
                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                  Genew;
                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 117B_MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                       29
ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
```

```
une European Bloinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This SWISS-PROT entry is copyright. It is produced through a collaboration
   Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J., Schriml L.M., Staubli F., Suzuki R., Tomita M., Magner L., Washio T., Sakai K., Okido T., Fruno M., Aono H., Baldarelli R., Barsh G., Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F., Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M., Gustinoich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H., Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P., Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N., Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F., Suzuki H., Toy-oka K., Wang K.H., Weitz C., Whitteker C., Wilming L., Wynshaw Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S., Hayashizaki Y.; Functional annotation of a full-length mouse cDNA collection.";
Obackenbush J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     67 NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYR 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  94 NKRSLSPWGYSINHDPSRIPADLPEARCLCLGCVNPFT--MQEDRSMVSVPVFSQVPVRR 151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   096PD4; Q9NUE6; Q96PI8;
15-JUN-2002 (Rel. 41, Created)
15-JUN-2002 (Rel. 41, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
Interleukin-17F precursor (IL-17F) (Interleukin-24) (Cytokine ML-1).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (POTENTIAL).
REF. 4).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 180;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INTERLEGIKIN-17B.

BY SIMILARITY.

BY SIMILARITY.

N-LINKED (GLGNAC. ..) (POT MOWPHSL. -> YPTSTFS (IN REF. G. -> R. (IN REF. 4).

R. -> K. (IN REF. 4).

R. -> K. (IN REF. 3).

N. -> T. (IN REF. 3).

S. -> I. (IN REF. 4).

W., E26F4C72001997C5 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13.6%; Score 123.5; DB 1
32.2%: Pred. No. 6.7e-05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  127 RPCHGEKGTHKGYCLERRLYR-VSLACVCV 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RLC--PQPPRPGPCRQRVVMETIAVGCTCI 179
```

3

--- PVPGGSMKLDIGIIN---ENQRVSMSRNIESRS

```
28 HTFFOKPESCP--
                                                                                                                                                                                                      09E0I6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CHAIN
                                                                                                                                                                      117B_MESAU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                          RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RAFFFFF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
 g
                                                       g
                                                                                                                                                                                        ð
                              ò
                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -i- SUBCELLULAR LOCATION: Secreted.
-i- TISSUB SPECIFICITY: Expressed in activated, but not resting, CD4+
T cells and activated monocytes.
-i- SIMILARITY: BELONGS TO THE IL-17 FAMILY.
                                                                                                                                                                                                                                                                                                                                                                          MEDLINE-21458422; PubMed-11574464;
Hymovitz S.G., Filvaroff E.H., Yin J.P., Lee J., Cai L., Risser P., Hymovitz S.G., Filvaroff E.H., Yin J.P., Lee J., Cai L., Risser P., de Vos A.M., Starovasnik M.A.; Kelley R.F., Pan G., Gurney A.L., de Vos A.M., Starovasnik M.A.;
"ILI-17s adopt a cystine knot fold: structure and activity of a novel cytokine, IL-17F, and implications for receptor binding.";
EMBO J. 20:5332-5341(2001).
                                                                                                               "IL-17\tilde{r}, a novel cytokine selectively expressed in activated T cells and monocytes, regulates anglogenesis and endothelial cell cytokine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -i- FUNCTION: Stimulates the production of other cytokines such as 6, IL-8 and granulocyte colony-stimulating factor, and can regulate cartilage matrix turnover. Stimulates PBMC and T-cell proliferation. Inhibits angiogenesis.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                Kawaguchi M., Onuchic L.F., Li X. D., Essayan D.M., Schroeder J.,
Xiao H.-Q., Liu M.C., Krishnaswamy G., Germino G., Huang S.-K.;
*Identification of a novel cytokine, ML-1, and its expression in
                                                       SEQUENCE FROM N.A.
MEDILNE-21475830; PubMed-11591732;
Starnes T., Robertson M.J., Sledge G., Kelich S., Nakshatri H.
Broxmeyer H.E., Hromas R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13.2%; Score 120.5; DB 1; Length 153; 26.3%; Pred. No. 0.00011; ive 22; Mismatches 49; Indels 41
                                                                                                                                                                                                                                                                                                                                                               X-RAY CRYSTALLOGRAPHY (2.85 ANGSTROMS), AND CHARACTERIZATION.
                                                                                                                                                                                                                                                                                                                                   Submitted (FEB-2000) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INTERLEUKIN-17F.
N-LINKED (GLCNAC. ..).
INTERCHAIN (WITH C-127').
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17009 MW; BB489BED883D57CE CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cytokine; Glycoprotein; Signal; 3D-structure.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; AF384857; AAK83350.1; ALT_INIT.
EMBL; AF332389; AAL14427.1; ALT_INIT.
EMBL; AL034343; CAB75300.1; -.
                                                                                                                                                                                     SEQUENCE OF 2-153 FROM N.A.
MEDLINE=21475866; PubMed=11591768;
                                                                                                                                                         Immunol. 167:4137-4140(2001).
                                                                                                                                                                                                                                                                        Immunol. 167:4430-4435(2001).
                                                                                                                                                                                                                                                                                                      SEQUENCE OF 76-153 FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       v; HGNC:16404; IL17F.
606496; -.
                                                                                                                                                                                                                                                               subjects with asthma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-SEP-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity
Matches 40; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 153 AA;
                              NCBI_TaxID=9606;
                                                                                                                                             production.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PDB; lJPY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DISULFID
DISULFID
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DISULFID
                                                                                                                                                                                                                                                                                                                       Almeida J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Genew;
```

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       67 NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYR 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         69 TSPWNYTVTWDPNRYPSEVVQAQCRNLGCINAQ------GKEDISMNSVPIQQETLVV 120
71 ISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHN----QTVFY 125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Moore B.E., Presnell S., Garrigues U., Guilbot A., LeGuern E., Smith D., Yao L., Whitmore T.E., Gilbert T., Kuestner R.E.; "Identification of a novel IL-17 related factor: demonstration of neuronal expression and evaluation as a candidate for the chromosome 5q-linked form of Charcot-Maria-Tooth disease."; Submitted (DEC-1999) to the EMBL/GenBank/DDBJ databases.
-: FUNCTION: Stimulates the release of tumor necrosis factor alpha and IL-lbeta from the monocytic cell line THP-1 (By similarity).
-: SUBCELLULAR LOCATION: Secreted.
-: SIMILARITY: BELONGS TO THE IL-17 FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                      15-JUN-2002 (Rel. 41, Created)
15-JUN-2002 (Rel. 41, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
16-JUN-2002 (Rel. 41, Last annotation update)
16-JUN-2002 (Rel. 41, Last annotation update)
17-JUN-2002 (Rel. 41, Last annotation update)
18-JUN-2002 (Rel. 41, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Cricetinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                . .) (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20071 MW; 03D02D60BEC89A51 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INTERLEUKIN-17B.
N-LINKED (GLCNAC. .
BY SIMILARITY.
BY SIMILARITY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12.8%; Score 116.5; DB 32.6%; Pred. No. 0.0003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               155 AA
                                                                                                                                                                                                                                                                                                                            178 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14; Mismatches
                                                                                                                                                   121 RRK---HQGCSVSFQLEKVL--VTVGCTCVTP 147
                                                                                                                       126 RRPCHGEKGTHKGYCLERRLYRVSLACVCVRP 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | | | : ::: | | RLC--PPPPRPGPCRHRVVMETIAVGCTC 178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  127 RPCHGEKGTHKGYCLERRLYR-VSLACVC 154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mesocricetus auratus (Golden hamster).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRT;
                                                                                                                                                                                                                                                                                                                                  PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; AF218725; AAG44134.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cytokine, Glycoprotein, Signal SIGNAL 1 22 P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STANDARD;
                                                                                                                                                                                                                                                                                                                                  STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    >178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          factor) (Fragment).
IL17B OR NIRF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 178 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=10036;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mesocricetus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Simi
Matches 29;
                                                                                                                                                                                                                                                                                                                               117B_MESAU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NON_TER
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IL17_HUMAN
ID IL17 ur
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 7
```

IL17_HUMAN

.;

Gaps

41;

15 HTYSHWPSCCPSKGQDTSEELLRWSTVPVP----PLEPARPNRHPESCRASEDGPLNSRA 70

õ

Conservative

ហ

```
01-WAR-1992 (Rel. 21, Created)
01-WAR-1992 (Rel. 21, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
                                                                                                                                         STANDARD;
                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=10383;
                                                                                                                                       VG13_HSVSA
P24916;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SIGNAL
                                                                                             RESULT 8
VG13_HSVSA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CHAIN
                              g
                                                                                                                                                              APODDD BARRAR BA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ..
2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -i- SUBCELLULAR LOCATION: Secreted.
-i- TISSUE SPECIFICITY: RESTRICTED TO ACTIVATED MEMORY T-CELLS.
-i- PTM: FOUND BOTH IN GLYCOSYLATED AND NONGLYCOSYLATED FORMS.
-i- SIMILARITY: BELONGS TO THE IL-17 FAMILY.
-i- DATABASE: NAME-R&D Systems' cytckine mini-reviews: IL17;
WWW-"http://www.rndsystems.com/asp/g_sitebuilder.asp?bodyId=211"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               88 VIWEAK--CRHLGCINADGNVDYHMNSVPIQQEILVLRREPPH----CPNSFRLEKIL-- 139
                                                                                                                                                                                                                                                                                     MEDLINE-92281911; PubMed-8676080; Fossiez F., Ait-Yahia S., Fossiez F., Djossou O., Chomarat P., Flores-Romo L., Ait-Yahia S., Maat C., Pin J.-J., Garrone P., Garcia E., Saeland S., Blanchard D., Gaillard C., Das Mahapatra B., Rouvier E., Golstein P., Banchereau J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   88 DLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYR 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28 PRNPGCPNSEDKNFPRTVMVNLNIHNRNTNTNPKRSSDYYNRSTSPWNLHRNEDPERYPS 87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PLEPARPNRHPESC------RASEDGPLNS-----RAISPWRYELDRDLNRLPQ 87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE-96094436; PubMed-7499828;
Yao Z., Painter S.L., Fanslow W.C., Ulrich D., Macduff B.M.,
Spriggs M.K., Armitage R.J.;
Spriggs M.K., Armitage R.J.;
"Human IL-17: a novel cytokine derived from T cells.";
J. Immunol. 155:5483-5486(1995).
-I- FUNCTION: INDECES STROMAL CELLS TO PRODUCE PROINFLAMMATORY AND
HEMATOPOLETIC CYTOKINES. EMBRANCES THE SURFACE EXPRESSION OF THE
INTRACELLULAR ADHESION MOLECULE-1 (ICAM-1) IN FIBROBLASTS.
                01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
Interleukin-17 precursor (IL-17) (IL-17A) (Cytotoxic T lymphocyte-
                                                                                                                                                                                 Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 1; Length 155;
                                                                                                                                                                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutele
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                     "T cell interleukin-17 induces stromal cells to produce proinflammatory and hematopoietic cytokines."; J. Exp. Med. 183:2593-2603(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N-LINKED (GLCNAC. . .) (PO
2BCAE9CB2F4886D1 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cytokine; Glycoprotein; T-cell; Antigen; Signal. SIGNAL 1 23 POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10.6%; Score 96.5; DB 25.8%; Pred. No. 0.02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INTERLEUKIN-17.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SIMILARITY.
SIMILARITY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pred. No. 0.02
; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15;
                                                                                                             (CTLA-8)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17504 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL; Z58820; CAA91233.1; -. EMBL; U32659; AAC50341.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HGNC:5981; IL17.
                                                                                                         associated antigen 8) (IL17 OR IL17A OR CTLA8.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SUBUNIT: HOMODIMER
                                                                                                                                                       Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 155 AA;
                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                           NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Genew; HGNC: MIM; 603149;
                                                                                                                                                                                                                                                                                                                                                                                     Lebecque S.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            34;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DISULFID
CARBOHYD
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
```

```
140 VSVGCTCVTPIV 151
```

151 AA

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  52 NRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPR 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                           Albrecht J.-C., Fleckenstein B.; "Structural organization of the conserved gene block of Herpesvirus saimiri coding for DNA polymerase, glycoprotein B, and major DNA binding protein.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
MEDLINE-92333688; PubMed-1321287;
Albrecht J.-C., Nicholas J., Biller D., Cameron K.R., Biesinger B.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Newman C., Wittmann S., Craxton M.A., Coleman H., Fleckenstein B., Honess R.W.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    POTENTIAL.

IMMEDIATE EARLY GENE 13 PROTEIN.

BY SIMILARITY.

BY SIMILARITY.

N'LINKED (GLCNAC. . .) (POTENTIAL).

N'LINKED (GLCNAC. . .) (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE-91021021; PubMed-1699352;
Micholas J., Smith B.P., Coles L., Honess R.;
"Gene expression in cells infected with gammaherpesvirus saimiri:
properties of transcripts from two immediate-early genes.";
Problogy 179:189-200(1990).
-1- SUBCELLULAR LOCAPION: Secreted.
-1- SIMILARITY: BELONGS TO THE IL-17 FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10.2%; Score 92.5; DB 1; Length 151; 27.7%; Pred. No. 0.047;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Primary structure of the herpesvirus saimiri genome.";
J. Virol. 66:5047-5058(1992).
                                                              Herpesvirus saimiri (strain 11).
Viruses; dSDNA viruses, no RNA stage; Herpesviridae;
Gammaherpesvirinae; Rhadinovirus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5;
0.047;
43;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ouery Match
Best Local Similarity 27.78; Pred. No.
Matches 31; Conservative 19; Mismatches
Immediate early gene 13 protein precursor.
13 OR KCLF2.
                                                                                                                                                                                                                                               MEDLINE-90163221; PubMed-2154888;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cytokine; Early protein; Signal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17180 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; X64346; CAA45636.1; -..
                                                                                                                                                                                                                                                                                                                                                                                              Virology 174:533-542(1990)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; M31122; AAA46169.1;
EMBL; M60286; AAA46156.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             151
140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EMBL; M60286; AAA401
PIR; D36807; D36807
PIR; B45351; B45351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              151 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
```

5,

148 VSLACVCVRPRV 159

à

9

ò

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@ib-sib.ch).
SCRASEDGPLN--SRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNS 114
                            52 NRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPR 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 11

IL17_MOUSE

TD 1L17_MOUSE STANDARD; PRT; 158 AA.

AC 062386; 060971;

DT 01.NOV-1997 (Rel. 35, Created)

DT 01.NOV-1997 (Rel. 35, Last sequence update)

DT 15-JUN-2002 (Rel. 41, Last annotation update)

DT 15-JUN-2002 (Rel. 41, Last annotation update)

DT 15-JUN-2002 (Rel. 41, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "The superantigen-homologous viral immediate-early gene iel4/vsag in herpesvirus saimiri-transformed human T cells.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N-LINKED (GLCNAC. .) (POTENTIAL).
N-LINKED (GLCNAC. .) (POTENTIAL).
N-LINKED (GLCNAC. .) (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              112 GNSELLYHNQTVFYRRPC ---- HGEKGTHKGYCLERRLYRVSLACVCVRPRV 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      POTENTIAL.
IMMEDIATE EARLY GENE 13 PROTEIN.
BY SIMILARITY.
BY SIMILARITY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9.8%; Score 89.5; DB 1; Length 151; 27.7%; Pred. No. 0.091;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       44; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
MEDLINE-80037620; PubMed-9371569;
Knappe A., Hiller C., Thurau M., Wittmann S., Hofmann H.,
Fleckenstein B., Fickenscher H.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -LINKED (GLCNAC. . .) (PC 49B2C9430C46BE32 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                            Herpesvirus saimiri (subgroup C / strain 488).
Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
Gammaherpesvirinae; Rhadinovirus.
                                                                                                                 108 VLIQQEILVLKREP---EKCPFT-FRVEKML--VGVGCTCV 142
                                                                                          115 ELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCV 155
                                                                                                                                                                                                                                                                                            15-JUN-2002 (Rel. 41, Created)
15-JUN-2002 (Rel. 41, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
Immediate early gene 13 protein precursor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           J. Virol. 71:9124-9133(1997).
-!- SUBCELLULAR LOCATION: Secreted.
-!- SIMILARITY: BELONGS TO THE IL-17 FAMILY.
                                                                                                                                                                                                                                                    151 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cytokine; Early protein; Signal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17189 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL; Y13183; CAA73627.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                      STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 151 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_TaxID=10384;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           31;
                                                                                                                                                                                                         RESULT 10
VG13_HSVSC
ID VG13_HSVSC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CARBOHYD
                                                                                                                                                                                                                                                                            040633;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                         g
                                     g
                                                                                            ò
                                                                                                                                    q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics. Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modifited and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ů,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -!- SUBUNTY: HOMODIMER (BY SIMILARITY).
-!- SUBCELLULAR LOCATION: Secreted.
-!- SUBILARITY: BELONGS TO THE IL-17 FAMILY.
-!- CAUTION: WAS ORIGINALLY (REF.1) THOUGHT TO BE FROM MOUSE BUT, ON THE BASIS OF SUBSEQUENT WORK (REF.2 AND REF.3), HAS BEEN SHOWN TO BE OF RAT ORIGIN.
                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A., AND ORGANISM IDENTIFICATION.
MEDLINE=97031826; PubMed=8877732;
Kennedy J., Rossi D.L., Zurawski S.M., Vega F. Jr., Kastelein R.A.,
Wagner J.L., Hannum C.H., Zlotnik A.;
"Mouse IL-17: a cytokine preferentially expressed by alpha beta TCR
CD4-CD8-T cells.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
MEDLINE-93294300; PubMed-83390535;
ROUVIER E., Luciani M.F., Mattei M.-G., Denizot F., Golstein P.;
"CTLA-8, cloned from an activated T cell, bearing AU-rich messenger RNA instability sequences, and homologous to a herpesvirus salmiri
                                                                                                                                                                                                                            01-NoV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
15-UTN-2002 (Rel. 41, Last annotation update)
Interleukin-17 precursor (IL-17) (Cytotoxic T lymphocyte-associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        J. Interferon Cytokine Res. 16:611-617(1996).
-1- FUNCTION: INDUCES STROMAL CELLS TO PRODUCE PROINFLAMMATORY AND HEMATOPOIETIC CYTOKINES (BY SIMILARITY).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     . .) (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10;
                                               100 GNVD--YHMNSVPIQQEILVVRKGHQPCPNSFRLEKML--VTVGCTCVTPIV 147
                       112 GNSELLYHNQTVFYRRPC----HGEKGTHKGYCLERRLYRVSLACVCVRPRV 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10.0%; Score 91; DB 1; Length 150; 29.7%; Pred. No. 0.065;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            44; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tao 2., Timour M., Painter S., Fanslow W., Spriggs M.K., "Complete nucleotide sequence of the mouse CTLA8 gene.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N-LINKED (GLCNAC. . .) (PC
I -> L (IN REF. 3)..
EF13F33EDF9D689F CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cytokine, Glycoprotein, T-cell, Antigen, Signal. SIGNAL 1 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INTERLEUKIN-17.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BY SIMILARITY.
BY SIMILARITY.
                                                                                                                                                                                    150 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17; Mismatches
                                                                                                                                                                                    PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE-96194901; PubMed-8654948;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Immunol. 150:5445-5456(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16876 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EMBL; L13839; AAA37490.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                    STANDARD;
                                                                                                                                                                                                                                                                                                                                                                      Rattus norvegicus (Rat).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM IDENTIFICATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gene 168:223-225(1996).
                                                                                                                                                                                                                                                                                                                      antigen 8) (CTLA-8).
IL17 OR CTLA8.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             150 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30;
                                                                                                                                                                                 IL17_RAT
Q61453;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CHAIN
DISULFID
DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   gene.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                         RESULT
```

ů,

Gaps

19;

Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus

```
DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DOMAIN
TRANSMEM
                                                                        SEQUENCE
                                                                                              (ISOFORM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CHAIN
             This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation-the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@ib-sib.ch).
                                                                                                                                                                   STRAIN-BALB/C; TISSUE-Thymocytes;
MEDLINE-97031826; PubMed=8877732;
Kennedy J., Rossi D.L., Zurawski S.M., Vega F. Jr., Kastelein R.A.,
Wagner J.L., Hannum C.H., Zlotnik A.;
"Mouse IL-17: a cytokine preferentially expressed by alpha beta TCR +
CD4-CD8-T cells.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      71 NRSTSPWTLHRNEDPDRYPSVIWEAQCRHQRCVNAE--GKLDHHMNSVLIQQEILVLKRE 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYRR 127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -:- SUBCELLULAR LOCATION: Secreted.
-:- TISSUE SPECIFICITY: RESTRICTED TO A SUBSET OF ACTIVATED T-CELLS.
-:- SIMILARITY: BELONGS TO THE IL-17 FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                  Yao Z., Timour M., Painter S., Fanslow W., Spriggs M.K.;
"Complete nucleotide sequence of the mouse CTLA8 gene.";
Gene 168:223-225(1996).
-!- FUNCTION: INDUCES STROMAL CELLS TO PRODUCE PROINFLAMMATORY AND
HEMATOPOLETIC CYTOKINES (BY SIMILARITY).
-!- SUBUNIT: HOMODIMER (BY SIMILARITY).
antigen 8) (CTLA-8).
IL17 OR CTLA8.
Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Rattus norvegicus (Rat).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .) (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NWE4_RAT STANDARD, PRT, 1323 AA.

062645; Q63381; Q63382; Q63729; Q63730;

16-OCT-2001 (Rel. 40, created)

16-OCT-2001 (Rel. 40, Last sequence update)

15-JUN-2002 (Rel. 41, Last annotation update)

Glutamate [NMDA] receptor subunit epsilon 4 precursor (N-methyl D-aspartate receptor subtype 2D) (NR2D) (NMDAR2D).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .;
8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1; Length 158;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       40; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N-LINKED (GLCNAC. . .) (PC
3505C143435F4653 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; U43088; AAB05222.1; -.
EMBL; U35108; AAA93253.1; -.
MGD; MGI:107364; I117.
Cytokine; Glycoprotein; T-cell; Antigen; Signal.
                                                                                                                                                                                                                                                                                                    J. Interferon Cytokine Res. 16:611-617(1996)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              POTENTIAL.
INTERLEUKIN-17.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity 27.3%; Pred. No. 0.2; les 24; Conservative 16; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SIMILARITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SIMILARITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9.5%; Score 86; 27.3%; Pred. No. (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          129 P----ESCPFTFRVEKML--VGVGCTCV 150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                128 PCHGEKGTHKGYCLERRLYRVSLACVCV 155
                                                                                                                                                                                                                                                                                                                                     EQUENCE OF 12-158 FROM N.A.
STRAIN-129/Sv; TISSUE-T-cell;
MEDLINE-96194901; PubMed-8654948;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  158 AA; 17490 MW;
                                                                                                                                                    SEQUENCE FROM N.A.
                                                                                                           NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DISULFID
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NME4_RAT
    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OS GREEN DATE OF SOS OS GREEN
```

```
modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Monyer H., Burnashev N., Laurie D.J., Sakmann B., Seeburg P.H.; "Developmental and regional expression in the rat brain and functional properties of four NMDA receptors.";
                                                                                                                               STRAIN=Sprague-Dawley; TISSUE=Forebrain;
MEDLINE=93155102; PubWed=8428958;
IShli T., Morlyoshi K., Sugihara H., Sakurada K., Radotani H.,
Yokoi M., Nkazawa C., Shigemoto R., Mizuno N., Masu M., Nakaihishi S.;
"Molecular characterization of the family of the N-methyl-D-aspartate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -1- TISSUE SPECIFICITY: EXPRESSED IN BRAIN, MAINLY IN THE SUBCORTICAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -!- DEVELOPMENTAL STAGE: Already detected in embryonic stages, peaks at postnatal day 7, and decreases thereafter to adult levels.
-!- SIMILARITY: BELONGS TO THE LIGAND-GATED IONIC CHANNEL FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Boulter J., Pecht G.;
Submitted (MAR-1994) to the EMBL/GenBank/DDBJ databases.

-!- FUNCTION: NMDA RECEPTOR SUBTYPE OF GLUTAMATE-GATED ION CHANNELS
WITH HIGH CALCIUM PEREBABLITY AND VOLFAGE-DEFENDENT
SENSITIVITY TO MAGNESIUM. MEDIATED BY GLYCINE.
-!- SUBUNIT: HETRERODIMER OF AN EFSILON SUBUNIT AND A ZETA SUBUNIT.
-!- SUBCELLULAR LOCATION: Integral membrane protein.
-!- ALTERNATIVE PRODUCTS: 2 ISOFORMS; 1 AND 2 (SHOWN HERE); MAY BE
PRODUCED BY ALTERNATIVE SPLICING.
                                                                   FROM N.A. (ISOFORM 1), AND SEQUENCE OF 1265-1356 FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Receptor; Signal; Transmembrane; Postsynaptic membrane; Calcium;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GLUTAMATE [NMDA] RECEPTOR SUBUNIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Glycoprotein; Ionic channel; Magnesium; Alternative splicing. SIGNAL 1 27 company.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Interpro; IPR001320; IOn_glu_receptor.
Interpro; IPR001508; NMDA_receptor.
Interpro; IPR001311; SBP/glu_receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRINTS; PR00177; NMDARECEPTOR.
ProDom; PD000500; Ion_glu_receptor; 1.
SMART; SM00079; PBPe; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EPSILON 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A. (ISOFORM 2).
STRAIN-Sprague-Dawley; TISSUE-Brain;
                                                                                                                                                                                                                                                                                                        receptor subunits.";
J. Biol. Chem. 268:2836-2843(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE-94206533; PubMed-7512349;
                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A. (ISOFORM 2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; D13213; BAA02500.1; -. EMBL; D13214; BAA02501.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EMBL; L31611; AAC37646.1; -.
EMBL; L31612; AAC37647.1; -.
EMBL; U08260; AAA17833.1; -.
HSSP; P19491; 1GR2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pfam; PF00060; lig_chan;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Neuron 12:529-540(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      580
601
623
644
653
674
841
862
NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                              TISSUE=Brain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REGION
```

```
FUNCTION: Able to activate NF-kappa-B 1 by mediated proteolysis of NF-kappa-B 1/P105.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PROTEIN KINASE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   422 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9.0%; Score 81.5; C
30.3%; Pred. No. 1.8;
tive 8; Mismatches
                                                                                                  SUBUNIT: Interacts with NFKB1/P105.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mesocricetus auratus (Golden hamster).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    InterPro; IPR000719; Buk_pkinase.
InterPro; IPR002290; Ser_thr_pkinase.
Pfam; PF00069; pkinase; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TISSUE-Ovary;
MEDLINE-91078540; PubMed-2257975;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     52807 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; M94454; AAA42185.1; -
Nature 397:363-368(1999).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          253
467 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NCBI_TaxID=10036;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mesocricetus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        33;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ZP3_MESAU
P23491;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACT_SITE
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DOMAIN
NP_BIND
BINDING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZP3_MESAU
  SOT THE PARKET WAS A PROPERTY OF THE PROPERTY 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DDT THE REPORT OF THE REPORT O
                                                                                                                        RECEPTORS (BY SIMILARITY).

N-LINKED (GLCNAC. ) (POTENTIAL).

CERAAPTRELIGESKHARRCPHAAMHOPPLEPASHRENGG
                                                                                                                                                                                                                                                                                                               DLGTRRGSAHFSSLESEV -> RPCPPHRTGDTGAGTWAHA GALRISPAWSPRYDAAPATPTPAAPSVSAGHGPRGRAKWT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       88 DL------YHARCLCPHCV----SLQTGSHMDPRGNSELLYHNQTVFYRR 127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRAIN-Long Evans; TISSUE-Liver;
MEDLINE-93211939; PubMed-7681591;
Patriotis C., Makris A., Bear S.E., Tsichlis P.N.;
Tumor progression locus 2 (Tpl-2) encodes a protein kinase involved in the progression of rodent T-cell lymphomas and in T-cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Rattus norvegicus (Rat).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    38 WSTVPVPPLEPAR---PNRHPESCRASEDGPL-----NSRAISPWRYELDRDLNRLPQ 87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8 (EC 2.7.1.-) (Tumor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE-99133929; PubMed-9950430;
Bellch M.P., Salmeron A., Johnston L.H., Ley S.C.;
"TPL-2 kinase regulates the proteolysis of the NF-kappaB-inhibitory
protein NF-kappaBl p105.";
                                                                                                                                                                                                                                                                                                                                                                      GPSWVGKDRNGPGRIPPGAASCAPIPFALGEL (IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1261 DLSSCPRAAPTRRLTGPSRHAR-RCPHAAHWGPPLPTASHRRHRG------
                                                                         POLY-PRO.
FUNCTIONAL DETERMINANT OF NMDA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1; Length 1323;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2; AAC37646).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                39; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MW; 40F7D60192579564 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Proc. Natl. Acad. Sci. U.S.A. 90:2251-2255(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      G -> V (IN REF. 2);
R -> P (IN REF. 2);
R -> A (IN REF. 2);
A -> G (IN REF. 3);
A -> G (IN REF. 3);
A -> G (IN REF. 3);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
Mitogen-activated protein kinase kinase kinase progression locus 2) (TPL-2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   467 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NI)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FUNCTION, AND MAP3K8-NFKB1/P105 BINDING.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 83;
                                                                                                                                                                                                                                                                                                                                                                                               I SOFORM 1
POLY-GLY.
POLY-PRO.
POLY-ALA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ë
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pred. No
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PR ->
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           143100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best_Local Similarity 26.7
Matches 35; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    305
635
974
1253
283
913
1035
1201
639
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1305 ---GDLGTRRG 1312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              128 PCHGEKGTHKG 138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1323 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                activation.
                                                                                                                                                                                                                                CARBOHYD
CARBOHYD
VARSPLIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                M3K8_RAT
Q63562;
                                                                                                                                                                                 CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                     CONFLICT
CONFLICT
CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CONFLICT
                                                                                                                                                      CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CONFLICT
DOMAIN
DOMAIN
DOMAIN
                                                                         DOMAIN
                                                                                                        SITE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           M3K8_RAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
```

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@ib-sib.ch).
   proteasome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               50 CPDSNQNKEHSESLLR-SGQEVPWLSSVRYGTVEDLLAFANHISNTTKHFYRCRPQESGI 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    24 CPSKGQ--DISEELLRWSTVPVPPLEPAR-------PNRHPESCRASEDGP 65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "Genomic organization and polypeptide primary structure of zona pellucida glycoprotein hzP3, the hamster sperm receptor."; pev. Biol. 142:414:421(1990).
-i. FUNCTION: FUNCTIONS AS A SPERM-RECEPTOR. IT IS RESPONSIBLE FOR SPERM-ADHESION TO THE ZONA PELLUCIDA, AND MAY CONTRIBUTE TO THE
                                                                                                                                             SUBCELLULAR LOCATION: Cytoplasmic.
TISSUE SPECIFICITY: Expressed in spleen, thymus, liver and lung-
PTM: Autophosphorylated
SIMILARITY: BELONGS TO THE SER/THR FAMILY OF PROTEIN KINASES.
MAP KINASE KINASE SUBFAMILY.
stimulating protease Plays a role in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-NOV-1991 (Rel. 20, Created)
01-FEB-1996 (Rel. 33, Last sequence update)
03-MAY-2000 (Rel. 39, Last annotation update)
20na pellucida sperm-bliding protein 3 precursor (Zona pellucida glycoprotein 2P3) (Sperm receptor) (Zona pellucida protein C).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Cricetinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Transferase; Serine/threonine-protein kinase; Proto-oncogene; ATP-binding; Phosphorylation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1; Length 467;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             66 LNSRAISP--WRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRG 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             37; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATP (BY SIMILARITY).
ATP (BY SIMILARITY).
BY SIMILARITY.
454E0E32768A4ABD CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Probom; PD000001; Euk_pkinase; 1.
PROSITE; PS00107; PROFEIN_KINASE_ATP; FALSE_NEG
PROSITE; PS00108; PROPEIN_KINASE_ST; 1.
PROSITE; PS50011; PROTEIN_KINASE_DOM: 1.
```

5.

```
Search completed: May 12, 2003, 01:59:40 Job time: 22 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δλ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       δy
                                                                                                                                                         This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (see http://www.isb-sib.ch/announce/or send an email to license@ibs-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       24 CPSKGQDTSEELLRWSTV-----PVPPLEPARPNRH--PESCRASEDGPLNSRAISPWR 75
                                                                                                                                                                                                                                                                                                                                                                                                                                    ZONA PELLUCIDA SPERM-BINDING PROTEIN 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDIINE-91092503; PubMed-2265761;
Menon A.L., Stults L.W., Robson R.L., Mortenson L.E.;
"Cloning, sequencing and characterization of the [NiFe]hydrogenase-
SPECIES-SPECIFICITY OF THE INSEMINATION.
SUBUNIT: ZP3 FORMS WITH ZP1 AND ZP2 THE ZONA PELLUCIDA, IN
WHICH ZP2 AND ZP3 COMPLEX INTO COPOLYMERS CROSS-LINKED BY ZP1.
SUBCELLULAR LOCATION: Type I membrane protein. Extracellular
                                                                                                                                                                                                                                                                                                                                                                  PROSITE; PS00682; 2P_DOMAIN; 1.
Glycoprotein; Signal; Sulfation; Sperm; Receptor; Transmembrane;
Extracellular matrix.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N-LINKED (GLCNAC. .) (POTENTIAL).
N-LINKED (GLCNAC. .) (POTENTIAL).
N-LINKED (GLCNAC. .) (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 80.5; DB 1; Length 422;
Pred. No. 2;
14; Mismatches 37; Indels 27;
                                                                            -i- TISSUE SPECIFICITY: OCCYTES.
-i- DEVELOPMENTAL STAGE: GROWING OCCYTES.
-i- PTM: SULFATED GLYCOPROTEIN WITH O-LINKED OLIGOSACCHARIDES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bacteria; Proteobacteria; gamma subdivision; Pseudomonadaceae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    76 YELDRDLN------VSLQDLYHARCLCP--HC-----VSLQTGSHM 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-MAY-1991 (Rel. 18, Created)
01-MAY-1991 (Rel. 18, Last sequence update)
01-NOY-1995 (Rel. 32, Last annotation update)
Uptake hydrogenase small subunit precursor (EC 1.18.99.1)
(Hydrogeniyase) (Membrane-bound hydrogenase small subunit)
                                                                                                                                                                                                                                                                                                                                                                                                                                                    EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               N-LINKED (GLCNAC. . .) (P. D0F95BE7FF8E7E01 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 358 AA
                                                                                                                                                                                                                                                                                                                                                                                                                       POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRO-RICH.
                                                                                                                            -!- SIMILARITY: CONTAINS 1 ZP DOMAIN.
                                                                                                                                                                                                                                                                                     EMBL; M63629; AAA37079.1; -.
InterPro; IPR001507; Endoglin/CD105.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRT;
                                                                                                                                                                                                                                                                                                                      Pfam; PF00100; zona_pellucida; 1.
PRINTS; PR00023; ZPELLUCIDA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             45827 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8.88;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Azotobacter vinelandii.
                                                                                                                                                                                                                                                                                                                                                       SM00241; ZP; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           302
422 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity
Matches 33; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=354;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Azotobacter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MBHS_AZOVI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                  CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              P21950;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 15
MBHS_AZOVI
 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     δğ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a
```

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation-the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11;
                                                             Gene 96:67-74(1990).
-!- FUNCTION: THIS BLOXME RECYCLES THE H(2) PRODUCED BY NITROGENASE TO INCREASE THE PRODUCTION OF ATP AND TO PROTECT NITROGENASE AGAINST INHIBITION OR DAMAGE BY O(2) UNDER CARBON- OR PHOSPHATE-LIMITED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          186 KPIVKVPG------CPPIAEVMTGVITYMLTFGKLPELDRQGRPKMFYGQRIHDKC-- 235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         157 WGSCA------PTQAVPIHKVITD 185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         80 RDLNRLPQDLYHARCLCPHCVSLQTG-----SHMDPRGNSELLY----HNQTVF 124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               78; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20 WPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASEDGPLNSRAISPWRYELD 79
                                                                                                                                                                                                                            -!- CATALYTIC ACTIVITY: 2 reduced ferredoxin + 2 H(+) = 2 oxidized
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            UPTAKE HYDROGENASE SMALL SUBUNIT.; BDCE5646D41D1C23 CRC64;
                                                                                                                                                                                                                                                       236 YRRP-HFDAGQEVEHWDDEGARKGYC---LYKVGCKGPTSYNACSTVR 279
structural genes (hoxK and hoxG) from Azotobacter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1; Length 358; 2.9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          125 YRRPCH-----ACVCVR 156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Oxidoreductase; Signal; Membrane; Iron-sulfur; Nickel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 8.6%; Score 78; DB 1
Best Local Similarity 21.9%; Pred. No. 2.9;
Matches 37; Conservative 19; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HSSP; P12943; IFRV.
InterPro; IPR002096; Cmplx1_20kDa.
InterPro; IPR001821; NiFehydrog_small.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRINTS; PR00614; NIHGNASESMLL.
TIGREAMS; TIGR00391; hyda; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            46 358 U
358 AA; 39259 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; M33152; AAA82505.1; -. EMBL; L23970; AAA19498.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pfam; PF01058; oxidored_q6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JQ0805; JQ0805.
                                                                                                                                                                                                 CONDITIONS
                                     vinelandii
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE
```

```
GenCore version 5.1.4_p5_4578 Copyright (c) 1993 - 2003 Compugen Ltd.
```

OM protein - protein search, using sw model

Run on:

US-10-037-591A-2 910 1 MYQVVAFLAMVMGTHTYSHW......BRRLYRVSLACVCVRPRVMG 161 Title:

Perfect score: Sequence:

671580 segs, 206047115 residues BLOSUM62 Gapop 10.0 , Gapext 0.5 Searched:

Scoring table:

671580 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

SPTREMBL_21:*

1: Sp_archea:*
2: sp_bacteria:*
3: sp_fungi:*
4: sp_human:*
5: sp_huwan:*
6: sp_mammal:*
7: sp_mion:* sp_vertebrate:*
sp_unclassified:*
sp_rvirus:* sp_bacteriap:* sp_organelle:* sp_archeap:* sp_plant:*
sp_rodent:* sp_virus:* sp_phage:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		Description	O8wxb0 homo sapien	Osvhh8 mus musculu	OBvhc9 mus musculu	O8tad2 homo sapien	09eqi7 rattus norv	044146 caenorhabdi	095156 bos taurus	O9qz34 trypanosoma	Ogbu21 homo sapien	09vs89 drosophila	O9nkz8 eptatretus	OBrvh7 populus tre	022687 caenorhabdi	09dc55 mus musculu	09d624 mus musculu	Q9cxa8 mus musculu
SUMMARIES		ID	Q8WXB0	Овуння	Q8VHC9	Q8TAD2	09EQI7	044146	095L56	Q9GZ34	Q9BU21	68SA60	Q9NKZ8	Q8RVH7	022687	Q9DC55	090624	Q9CXA8
		DB	4	11	11	4	11	N	9	Ŋ	4	Ŋ	13	10	Ŋ	11	11	11
	94 C	Length	161	169	153	202	111	162	141	499	405	1394	379	174	206	459	459	459
	*	Match	99.3	77.9	71.6	13.9	12.5	11.8	10.4	9.6	9.1	6.8	8.8	8.6	8.6	8.6	8.6	8.6
	٠	Score	904	709	652	126.5	114	107	95	87	83	81	80.5	78.5	78.5	78	78	78
	Pesult	NO.	-	7	m	4	S	9	7	80	6	10	11	12	13	14	15	16

0881e5 oryza sativ 09jir4 rattus norv 094jb3 oryza sativ 0362B1 venezuelan 0362B1 venezuelan 09qat1 venezuelan 09qat0 venezuelan 09qas9 venezuelan 09qas6 ve	777
10 08S1E5 11 09JIR4 10 09JIR4 12 036JB3 12 036ZB1 12 090AT2 12 090AT2 12 090AT3 12 090AS6 12 090AS6 12 090AS6 12 090AS6 12 090AS6 12 090AS6 12 090AS6 12 090AS6 12 090AS6 12 090AS6 13 090AS6 14 090AS6 15 090AS6 16 090AS6 17 090AS6 18 090	10 094001 11 094LF9 5 09VSE3 6 08VS53 4 09UFZ4 11 09WC2 11 09WC2
8 6 7 7 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	ਜਜ
77 76 76 76 76 76 76 76 76 76	
	n m ಈ ಈ ಈ ಈ ಈ

ALIGNMENTS

; 0

ò qq Euteleostom1;

~

```
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             44;
                                                                                                                                                             SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE
                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local
                                                                                                          Mice.";
                                                                                                                                                                                                                                                                                                                                                                                          OSTAD2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                     RESULT 4
                                                                                                                                                                                                                                                                                                                                                                                OSTAD2
  ò
                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                            엄
                                                                                                                                                                                                                                                                                                                δλ
                                                                                                                                                                                                                                                                                                                                                                                           qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ;
                                                                                                                                                                                                                                                                                                                                                                            STRAIN-C57BL/6;
Hurst S.D., Muchamuel T., Gorman D.M., Gilbert J.M., Clifford T.,
Kwan S., Menon S., Seymour B., Jackson C., Kung T., Brieland J.,
2urawski S.M., Chapman R., Zurawski G., Coffman R.L.;
"New IL-17 family members promote Thl or Th2 responses in the lung: In
vivo function of the novel cytokine IL-25.";
Submitted (DEC-2001) to the EMBL/GenBank/DDBJ databases.
EMBL, AF458060; AAL57623.1;
GMGD; MGI:2155888; Ill7e.
                                                                                                                                                                                                                                                                              MEDLINE-21629216; PubMed-11754819;
Fort M.M., Cheung J., Yen D., Li J., Zurawski S.M., Lo S., Menon S., Clifford T., Hunte B., Lesley R., Muchamuel T., Hurst S.D., Zurawski G., Leach M.W., Gorman D.M., Rennick D.M.;
"IL-25 Induces IL-4, IL-5, and IL-13 and Th2-Associated Pathologies In
          RHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRG 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61 HHAESCRASKDGPLNSRAISPWSYELDRDLNRVPQDLYHARCLCPHCVSLQTGSHMDPLG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MYQVVAFLAMVMGTHTY----SHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPN 52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ώ
ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 169;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVM 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              169 AA; 19210 MW; CFAD2CEDE452C94D CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (TrEMBLrel. 20, Created)
(TrEMBLrel. 20, Last sequence update)
(TrEMBLrel. 21, Last annotation update)
                                                                                                                                                              Last sequence update)
Last annotation update)
                                                               QTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVM 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  77.9%; Score 709; DB 11; 76.8%; Pred. No. 1.2e-68;
                                                                                                                               169 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9; Mismatches
                                                                                                                                                    Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRT;
                                                                                                                                                  01-MAR-2002 (TrEMBLrel. 20, 01-MAR-2002 (TrEMBLrel. 20, 01-JUN-2002 (TrEMBLrel. 21,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-WAR-2002 (TrEMBLrel. 20, 01-JUN-2002 (TrEMBLrel. 21, Interleukin 17E (Fragment).
                                                                                                                                                                                                                                                                                                                                               Immunity 15:985-995(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                               PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRELIMINARY;
                                                                                                                                                                                                        Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IL17E.
Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity
Matches 129; Conserv
                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                                                      NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                        STRAIN-C57BL/6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     08VHC9;
                                                                                                                                         овиннв;
                                                                                                                               087НН8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ОВУНС9
                                                                                                                                                                                                                                                                                                                                     Vivo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               113
                               61
                                                                        121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   121
           61
                                                                                                          RESULT 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 3
                                                                                                                     984на
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q8VHC9
                                                                                                                               g
                                                     à
                                                                        q
           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              å
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
```

```
78 LDRDINRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHK 137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10 SHLPSCCPSKEQEPPEEWLKWSSASVSPPEPLSHTHHAESCRASKDGPLNSRAISPWSYE 69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20 WPSCCPSKGQ....-DISEELLR-...--WSTVPVPPLEPARPNRHPE 56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ٦,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18 SHWPSCCPSKGODTSEELLRWSTVPVPPLEPARPNRHPESCRASEDGPLNSRAISPWRYE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SECUENCE FROM N.A.

SECUENCE FROM N.A.

Thromas R.A., Starnes T.T.;

"IL-17D, A Novel Member of the IL-17 Family, Stimulates Cytokine Production and Inhibits Hematopoiesis.";

Submitted (FEB-2012) to the EMBL/GenBank/DDBJ databases.

EMBL; AX078238; AAL86911.1;

EMBL; AR479775; AAM16211.1;
                                                                                                                                                               Lee J., Foster
                                                                                                      SEQUENCE FROM N.A.
MEDLINE-21571724; PubMed-11714825;
Pan G., French D., Mao W., Maruoka M., Risser P., Lee J., Foster Pan G., French D., Mao W., Guillet S., Schow P., Gurney A.L.;
Aggarwal S., Nicholes K., Guillet S., Schow P., Gurney A.L.;
"Forced Expression of Murine IL-17E Induces Growth Retardation, Jaundice, a Th2-Biased Response, and Multiorgan Inflammation in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ;
0
Craniata; Vertebrata; Euteleosto
Sciurognathi; Muridae; Murinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 153;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Eutele
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hadj-Slimane R., Bobe P.;
"Interleukin 27 (IL27): a newly identified cytokine.";
Submitted (FEB-2002) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                            A0EE897842E6EB39 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 5 POTENTIAL.
202 AA; 21893 MW; D171Ç5FB2DD039C3 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
Interleukin 27 precursor (IL17D precursor).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       69;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             71.6%; Score 652; DB 11;
81.1%; Pred. No. 1.5e-62;
iive 7; Mismatches 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13.9%; Score 126.5; DB 4; 27.0%; Pred. No. 9e-06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              202 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Q8TAD2;
01-JUN-2002 (TrEMBLrel. 21, Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRT;
                                                                                                                                                                                                                                                                                    J. Immunol. 167:6559-6567(2001).
EMBL; AY034088; AAK59816.1; -.
MCD; MGI:2155888; Ill7e.
NON_TER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 130 HYCLERRLYRVSLACVCNRPRVM 152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     138 GYCLERRLYRVSLACVCVRPRVM 160
                                                                                                                                                                                                                                                                                                                                                                                                               153 AA; 17456 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity 81.1
Matches 116; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
TISSUE-ENTIRE BRAIN;
```

9

 \sim

9

```
01-DEC-2001
01-DEC-2001
01-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           095156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Q9GZ34
                                                                                                                                                                                                                                                                                               Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 8
Q9GZ34
              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                               ă
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ă
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AC
DT
SCRASE---DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGN 113
                                                 GGRPADRRFRPPTNLRSVSPWAYRISYDPARYPRYLPEAYCLCRGCLTGLFGEE-DVRFR 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            67 NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYR 126
                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
NCBL_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         neuronal expression and evaluation as a candidate for the chromosome 5q-linked form of Charcot-Marie-Tooth disease."; Submitted (DEC-1999) to the EMBL/GenBank/DDBJ databases. EMBL; AF218724; AAG44133.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
Rhabditidae; Peloderinae; Caenorhabditis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Moore E.E., Presnell S., Garrigues U., Guilbot A., LeGuern E., Smith D., Yao L., Whitmore T.E., Gilbert T., Kuestner R.E.; "Identification of a novel IL-17 related factor: Demonstration of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "Genome sequence of the nematode C. elegans: a platform for investigating biology. The C. elegans Sequencing Consortium."; Science 282:2012-2018(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             / Match 12.5%; Score 114; DB 11; Length 111; Local Similarity 35.1%; Pred. No. 0.0001; nes 27; Conservative 13; Mismatches 33; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   12628 MW; D1598392981BA867 CRC64;
                                                                                                                             SELLYHNOTVFYRRP-CHGEKGTHKGYCLERRLYRVSLACVCV 155
                                                                                                                                                                                                                                                                                                         01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRAIN-BRISTOL N2;
Tin-Wollam A.;
"The sequence of C. elegans cosmid C44B12.";
                                                                                                                                                                                                                                                                    111 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              162 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-JUN-1998 (TrEMBLrel. 06, Created) 01-JUN-1998 (TrEMBLrel. 06, Last seq 01-DEC-2001 (TrEMBLrel. 19, Last ann Hypothetical 18.9 kDa protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRAIN-BRISTOL N2;
MEDLINE-99069613; PubMed-9851916;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       127 RPCHGEKGTHKGYCLER 143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RLC -- POPPRPGPCRQR 103
                                                                                                                                                                                                                                                                 PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                           Rattus norvegicus (Rat).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Caenorhabditis elegans
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   111 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=6239;
                                                                                                                                                                                                                                                                                                                                                                                     NERF (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NON_TER
NON_TER
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    044146;
                                                                                                                                                                                                                                                                                       09E017;
                                                                                                                                                                                                                                                               Q9EQI7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         044146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Loca
Matches
                                                                                                                                           133
                                                                                               114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      68
                                                                                                                                                                                                              RESULT 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   044146
                                                                                                                                                                                                                                         09E017
                                                                                                                                           a
                                              g
                                                                                             ò
                                                                                                                                                                                                                                                                                       ACCOCC ON REPRETED TO THE REPR
       á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
```

```
87 QDLYHARCLCPHCVSLQTG-SHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRL 145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | : | | : | : | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | : | | : | : | | : | : | | : | | : | : | | : | : | : | : | | : | : | : | : | : | : | : | : | : | 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    63 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        52 ---YHKRSTSPWTLHRNEDPERYPSVIWEAKCSHSGCINAE--GKVDHHMNSVTIQQEIL 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4 VVAFLAMVMGTHTYSHWPSCCPSKGQDTSEEL-LRWSTVPVPPLEPARPNRHPESCRASE 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bos taurus (Bovine).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea;
Bovidae; Bovinae; Bos.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     27 KGODTSEELLRWSTVPVPPLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10.4%; Score 95; DB 6; Length 141; 22.3%; Pred. No. 0.015;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       39; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                          Submitted (JUN-2001) to the EMBL/GenBank/DDBJ databases.
EMBL; AF036692; AAB88329.1; -.
Hypothetical protein.
SEQUENCE 162 AA; 18857 WW; 423DD662E316549B CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Lee I.-K., Managi S.M., Olsen S., Kehrli M. Jr.; submitted (SEP-2001) to the EMBL/GenBank/DDBJ databases.
EMBL, AF416586; AAL08013.1; -. CHAIN II III 141 INTERIENTET II 11 INTERIENTET III INTERIENTET III INTERIENTET III I
Submitted (DEC-1997) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      141 INTERLEUKIN 17.
15945 MW; 94077A79DD803F3E CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    70;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11.8%; Score 107; DB 5; 26.2%; Pred. No. 0.00089;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      123 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRV 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               107 VLRRESQH----CPHSFRLEKML--VAVGCTCVTPIV 137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         30; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          09Gz34;
01-MAR-2001 (TrEMBLrel. 16, Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (TrEMBLrel. 19, (TrEMBLrel. 19, (TrEMBLrel. 19,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Interleukin 17 (Fragment).
IL17.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 34; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               35; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRELIMINARY;
                                                                                                                                                                                                      Waterston R.; "Direct Submission.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           :|:|||| |
144 QKVALACVPV 153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             141 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         146 YRVSLACVCV 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity
                                                                                             SEQUENCE FROM N.A. STRAIN-BRISTOL N2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NCBI_TaxID=9913;
```

9

```
(TrEMBLrel. 13, (TrEMBLrel. 13, (TrEMBLrel. 21,
                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                 STRAIN=BERKELEY
                  01-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NON_TER
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6
                                                                                                                                                                                                                                                                                                                                234 PSSSPSDGFTTRSMQKQLIRKQSIPIPPARHGE-KREPETDRQHLLCGSETFRLNSGRHP 292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              217 SVPPVPPSE-ALP---PPACPSA---PAPRRSIISRPPPWGWRLRGALGRRGQWPPWGGG 269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               270 RACHCLGRHLPLYHRLCRCPVAAVCASELEEAGHWWSPGWALQVLGLQAQCEPALQEGRG 329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                98 HCVSLQTGSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRP 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ------DLYHARCLCP------97
                                                                 Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma
                                                                                                                                                                                                                                                                                                 21 PSCCPSKGQDT---SEELLRWSTVPVPPLEPARPNRHPESCR-----ASEDGPLN---- 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STVPVPPLEPARPNRHPESCRASEDGPLNSRAI ----SPWRYELDRDLNRLPQ-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                 34;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16;
                                                                                                                                                                                                                                                                                                                                                               68 ----SRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSEL 116
                                                                                                                                                                                                                                                                                                                                                                                    293 SQQSSRVLSS-----SPSPNDVFHD-----TPIQSGLHSGRRGYSEI 329
                                                                                                                                                                                                                                                               14; Mismatches 33; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 51; Indels
                                                                                                                                                                                                                             9.6%; Score 87; DB 5; Length 499; 28.3%; Pred. No. 0.44;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9.1%; Score 83; DB 4; Length 405;
24.3%; Pred. No. 0.95;
tive 10; Mismatches 51; Indels
                                                                                                                                              Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases. EMBL, AF242860; AAF98145.1; -. Hypothetical protein Brotein S5486 WW, 67270831B8425296 CRC64; SEQUENCE 499 AA; 55486 WW, 67270831B8425296 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Strausberg R.;
Strausberg R.;
Submitted (FEB-2001) to the EMBL/GenBank/DDBJ databases.
EMBL; BC002945; AAH02945.1; -.
Hypothetical protein.
SEQUENCE 405 AA; 44298 WW; 6C30D7F7B60DBE68 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-JUN-2001 (TrEMBLrel. 17, Last sequence update) 01-DEC-2001 (TrEMBLrel. 19, Last annotation update) Similar to hypothetical protein FLJ10101.
01-WAR-2001 (TrEMBLrel. 16, Last sequence update) 01-MAR-2001 (TrEMBLrel. 16, Last annotation update) Hypothetical 55.5 kDa protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                405 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRT; 1394 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .-JUN-2001 (TrEMBLrel. 17, Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ouery Match
Best Local Similarity 24.38;
Matches 44; Conservative
                                                                                                                                                                                                                                                Best Local Similarity 28.3% Matches 32; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
                                                                                                               SEQUENCE FROM N.A.
                                                 Prypanosoma cruzi
                                                                                  NCBI_TaxID=5693;
                                                                                                                                    Andersson B.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TISSUE-SKIN;
                                                                  Eukaryota;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R 158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  R 382
                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Q9VS89;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                09BU21.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 10
Q9VS89
ID Q9VS89
AC Q9VS89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  382
                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q9BU2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
   ò
                                                                                                                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
```

```
01-WMY-2000 (Trembalzel, 12, Last sequence update)
05.07556 procein (Farameni, 12, Last sequence update)
05.07556 procein (Farameni, 12)
05.07556 procein (Far
```

ď.

```
SEQUENCE FROM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-NOV-1996
01-NOV-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        022687
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            none;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 14
g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δλ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                          2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                            ESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSE 115
                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             166 SFLAIIQGMHLLS--ADACGQEGYLDEEDENMSPEEWPYFAPFPSPPSTPPPPPPPPPRRR 223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6 AFLAMVMGTHTYSHWPSCCPSKG----QDTSEELLRW------STVPVPPLEP--- 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE-20219325; PubMed-10754074; Ono-Koyanagi K., Suga H., Katoh K., Miyata T.; Ono-Koyanagi K., Suga H., Katoh K., Miyata T.; Protein tyrosine phosphatases from amphioxus, hagfish, and ray: divergence of tissue-specific isoform genes in the early evolution
                                                                                                                           322 DSCTDLENPQLN------RTRCAHECQDLPEGSY--RCVCPKGYELSEDQH-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa; Chordata; Craniata; Hyperotreti; Myxiniformes;
Myxinidae; Eptatretinae; Eptatretus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      49 -- ARPNRHP----- ESCRASEDGPLNS--RAISPWRYELDRDLNRLPQDLYHARC 94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             31;
                                                          26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 379;
                 Score 81; DB 5; Length 1394;
                                                        41; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         379 AA; 42672 MW; A2493B3FF3D90174 CRC64;
                                                                                                                                                                            116 LLYHNQTVFYRRPCHGEKGTHK -- - GYCLERRLYRVSLACVC 154
                                                                                                                                                                                                      01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-NAR-2002 (TrEMBLrel. 20, Last annotation update)
HGPTPN3 protein (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Created)
Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           45;
8.9%; Scor.
26.5%; Pred. No. o...
                                                                                                                                                                                                                                                                                                                             Ą.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1.6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8.8%; Score 80.5; 28.0%; Pred. No. 1.6
                                                                                                                                                                                                                                                                                                                           379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PROSITE; PS00383; TYR_PHOSPHATASE_1; 1.
PROSITE; PS50056; TYR_PHOSPHATASE_2; 1.
PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eptatretus burgeri (Inshore hagfish).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              InterPro; IPR000340; DS_phosphatase.
InterPro; IPR000387; TYR_phosphatase.
InterPro; IPR000242; Tyr_PP.
                                                                                                                                                                                                                                                                                                                           PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pfam; PF00102; Y_phosphatase; 1.
PRINTS; PR00700; PRTYPHPHTASE.
SWART; SW00194; PTPc; 1.
SWART; SW00012; PTPc_DSPc; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 vertebrates.";
J. Mol. Evol. 50:302-311(2000).
EMBL; AB033579; BAA95186.1;
HSSP; P18031; ZHNQ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9.
                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                           PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-JUN-2002 (TrEMBLrel. 01-JUN-2002 (TrEMBLrel. 01-JUN-2002 (TrEMBLrel. Aux/IAA protein.
                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
hes 33; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID=7764;
                 Quer,
Best Local Simi.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Aydrolase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE
               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                          Q9NKZ8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           08RVH7;
                                                                                                                                                                                                                                                                                                                         Q9NKZ8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Q8RVH7
                                                                                            26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                  RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 12
                                                                                                                                                                                                                                                                                                     Q9NKZ8
                                                                                                                               셤
                                                                                                                                                                               õ
                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                               DDT TERM THE TERM TO THE TERM THE THE TERM THE T
                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEPTER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
```

```
Populus tremula x Populus tremuloides.
Eukaryopti, Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
eurosids I; Malpighiales; Salicaceae; Populus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         56 SEQLLDW-----PPIKPS-----PGKAVTSEENEYSSSTLFVKVYMEGIQIGRKLNLLAH 105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ----GKCNSKKLDTIS 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           107 AETPLRDRALCKFEYVLNYNPKRLPAALTEVKCSC-------PRPNSKLVGKRI 153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               32 SEELLRWSTVPVPPLEPARPNRHPESCRASEDGPLNSRAISPWRY----ELDRULNRLPQ 87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
Rhabditidae; Peloderinae; Caenorhabditis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18 SHWPSCCPS-----KGQDTSEELLRWSTVPVPPLEPARPNRHPESCRA----S
                                                                                                                                                                                                                                                                                                                                                                                                                                                             25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            62 EDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELL-
                                                                                                                                                                                                                                                                                                                                                                                                           Length 174;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 206;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                "Aux/IAA genes and wood formation.";
Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases.
EMBL; AJ306826; CAC64707.1;
SEQUENCE 174 AA; 19323 WW; 44D6FAC465BC1940 CRC64;
                                                                                                                                                                                  SEQUENCE FROM N.A.
TISSUB-CAMBIAL REGION;
Schrader J., Moyle R., Stenberg A., Olsson O., Sandberg
Bhalerao R.P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            McMurray A.A.;
Submitted (AUG-1995) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Genome sequence of the nematode C.elegans: A platform
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2BDBA0A61ED7C7D2 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              154 FECEHLRYQVRVLAMWDDSCN-----TFREHVETIALACIPV 189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -----YHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCV 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                88 DLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYRRPCH 130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DGYHD------LIQT---LDQMFNTSILWPEMDVEHSGKCH 137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                             35;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         46;
                                                                                                                                                                                                                                                                                                                                                                                                              DB 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8.6%; Score 78.5; DB 20.0%; Pred. No. 1.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 27.2%; Pred. No. 1.1;
Matches 28; Conservative 15; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=99069613; PubMed=9851916;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         investigating biology.";
Science 282:2012-2018[1999].
EMBL; 250797; CAA90671.1; -.
SEQUENCE 206 AA; 23959 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01,
19,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1-NOV-1996 (TrEMBLrel.
1-NOV-1996 (TrEMBLrel.
1-DEC-2001 (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Caenorhabditis elegans.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity
les 33; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        T22H6.1 protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID-6239;
```

. 9 Created)

9

```
ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           qq
ò
                                                                                                                                                                                             STRAIN-CSTBL/63; TISSUB-LUNG;

X Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
A Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
A Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
A Alzawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,
Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
Radota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
Radota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
Rubil P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
Brownstein M.J., Bult C., Fletcher C., Fullita M., Gariboldi M.,
Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
Brownstein M.J., Bult C., Fletcher C., Fullita M., Mombaerts P.,
Nordone P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
Nordone P., Rung B., Ringwald M., Rodisquez I., Sakamoto N.,
Sazaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
Wynshaw-Booris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          84 RLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLER 143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ------CTVRKCAALQATRGVEPAGWKEMRCHLRT------DGYLCK- 172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          87 SKDLLFWVALERSISQCTQEKEPLRGFSWLHPDS-EDSEDSPL-----PWVEEPQRS-- 137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     44; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 32 SEELLRWSTVP-----VPPLEPARPNR--HPESCRASEDGPLNSRAISPWRYELDRDLN 83
                                                                                                                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hayashizaki Y.;
"Functional annotation of a full-length mouse cDNA collection.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 11; Length 459;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    44; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PROSITE; PS01186; EGF_2; 1.
SERNIENCE 459 AA; 49053 MW; 6CB25D048A456A7B CRC64;
                                                       Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
8.6%; Score 78; DB 1
Best Local Similarity 25.4%; Pred. No. 3.8;
Matches 34; Conservative 12; Mismatches
             459 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pfam; PF00059; lectin_c; 1.
SMART; SM00034; CLECT; 1.
SMART; SM01013; EGF; 1.
SMART; SM00001; EGF_like; 1.
PROSITE; PS00010; ASX_HYDROXYL; UNKNOWN_1.
PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
                                          Created)
               PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MGD; MGI:1914114; 1200003C33Rik.
InterPro; IPR000152; Asx_hydroxyl.
InterPro; IPR00561; EGF-like.
InterPro; IPR001304; Lectin_C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Nature 409:685-690(2001).
EMBL; AK004557; BAB23370.1; -.
                                     01-JUN-2001 (TrEMBLrel. 17,
01-JUN-2001 (TrEMBLrel. 17,
1200003C23R1k protein.
             PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 173 -- YQFEVLCPAPRP 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   144 RLYRVSLACVCVRP 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pfam; PF00008; EGF; 1.
                                                                                                                 Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      P00743; 1CCF.
                                                                                                                                                                                       SEQUENCE FROM N.A.
                                                                                                                                                         NCBI_TaxID=10090;
             Q9DC55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        09D624
ID 09
09DC55
               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
```

459 AA.

PRT;

PRELIMINARY;

09D624 09D624;

```
TRAIN-C57BL/6J; TISSUE-HEAD;

KAWAI J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,

Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,

Kawai J., Shinagawa A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,

Azawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,

Asaito T., Okazaki Y., Golobori T., Bono H., Ksukawa T., Saito R.,

Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,

Ruchi P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,

Ruchi P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,

Ruchi P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,

Ruchi I.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,

Sakai K., Okido T., Furuno M., Anno H., Bandarelli R., Barsh G.,

Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,

Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,

Blake J., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,

Nordone P., Ring B., Ringwald M., Rodfiguez I., Sakanoto N.,

Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,

Nussaki H., Toyo-oka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,

Harsellis A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S.,

Harsellis A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    87 SKDLLFWVALERSISOCTQEKEPLRGFSWLHPDS-EDSEDSPL-----PWVEEPQRS-- 137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      84 RLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNOTVFYRRPCHGEKGTHKGYCLER 143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                32 SEELLRWSTVP-----VPPLEPARPNR--HPESCRASEDGPLNSRAISPWRYELDRDLN 83
                                                                                                                                                                               Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hayashizaki Y.; "Functional annotation of a full-length mouse cDNA collection.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 459;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8.6%; Score 78; DB 11; Length 45
25.4%; Pred. No. 3.8;
Live 12; Mismatches 44; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            49065 MW; A257B38DA598EC8A CRC64;
Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SMART; SM00034; CLECT; 1.
SMART; SM010181; BGF; 1.
PROSITE; PS000101; BGF_11ke; 1.
PROSITE; PS00010; ASX_HYDROXYL; UNKNOWN_1.
PROSITE; PS00401; C_TYPE_LECTIN_2; 1.
SEQUENCE 459 AA, 49065 MW; A257B3BDA598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Search completed: May 12, 2003, 02:00:42 Job time : 47 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MGD; MGI:1914114; 1200003C23Rik.
InterPro; IPR000152; Asx_hydroxyl.
InterPro; IPR000561; BGF-like.
InterPro; IPR001304; Lectin_C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nature 409:685-690(2001).
EMBL; AK014681; BAB29502.1; -.
HSSP; P00743; ICCF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pfam; PF00008; EGF; 1.
Pfam; PF00059; lectin_c; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
01-JUN-2001 (TrEMBLrel.
01-JUN-2002 (TrEMBLrel.
1200003C23R1k protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  144 RLYRVSLACVCVRP 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            --YOFEVLCPAPRP 184
                                                                                                                                                    Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Local Similarity
Matches 34; Conserva
                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
                                                                                                                                                                                                                                             NCBI_TaxID=10090;
                                                                                                             1200003C23RIK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
```

```
Sequence 12, Application US/08514014
Patent No. 5707829
GENERAL INFORMATION:
APPLICANT: Jacobs, Kenneth
APPLICANT: McCoy, John
APPLICANT: Kelleher, Kerry
APPLICANT: Carlin, McKeough
TILLE OF INVENTION: BNCODED THEREBY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best_Local Similarity 27.1
Matches 42; Conservative
1323
11132
11132
11132
11132
11132
11132
11132
11132
11132
11132
11132
11134
11184
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; TYPE: PRT
; ORGANISM: Mouse
US-09-724-864-37
                                                                                                                                                                                                                                                               US-09-724-864-37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-08-514-014-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                125
Op
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Appli
Appli
Appli
Appli
Appli
Appli
Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Appli
Appli
Appli
Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Appli
Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Appli
Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Appli
Appli
Appli
Appli
                                                                     // Search time 23 Seconds
(without alignments)
205.960 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                        Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 12,
Sequence 12,
Sequence 2,
Sequence 2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 6
Sequence 8
Sequence 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 2
Sequence 7
Sequence 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence Sequence S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                      1 MYQVVAFLAMVMGTHTYSHW......ERRLYRVSLACVCVRPRVMG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                     262574
                                                                                                                                                                                                                                                                                                                 Issued_Patents_AA:*

(cgn2_6/ptodata/1/laa/5A_COMB.pep:*

(cgn2_6/ptodata/1/laa/5B_COMB.pep:*

(cgn2_6/ptodata/1/laa/6A_COMB.pep:*

(cgn2_6/ptodata/1/laa/Re_COMB.pep:*

(cgn2_6/ptodata/1/laa/Re_COMB.pep:*

(cgn2_6/ptodata/1/laa/PCTUS_COMB.pep:*

(cgn2_6/ptodata/1/laa/PCTUS_COMB.pep:*
      GenCore version 5.1.4_p5_4578 Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-724-864-37
US-08-514-014-12
US-09-833-823-12
US-09-034-810-2
US-08-685-239-2
US-08-620-694A-8
US-09-034-810-6
US-09-022-255-8
US-09-022-255-8
US-09-022-255-8
US-09-022-255-8
US-09-022-259-8
US-09-034-4
US-09-034-4
                                                                                                                                                                                                                 Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08-685-239-4
US-08-432-994A-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-620-694A-7
US-09-022-255-7
                                                                                                                                                                                               262574 seqs, 29422922 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                    SUMMARIES
                                                                                                                                                                                                                                                                      Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                  protein search, using sw model
                                                                                                                                                             BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                      May 12, 2003, 01:59:09
                                                                                                                                                                                                                                        seq length: 0 seq length: 2000000000
                                                                                                                  US-10-037-591A-2
910
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query
Match Length
                                                                                                                                                             Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     991
991
86
86
86
86
86
                                                                                                                                                                                                                                       Minimum DB s
Maximum DB s
                                                  OM protein
                                                                                                                                        Sequence:
                                                                                                                                                                                             Searched:
                                                                         ü
Ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Title:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Š.
```

```
′;
                                                                                                                          605, App
5, Appli
                                                                                                                                                                                                              s, App
Appli
                                                                                                                                                                                                                                                                                                                                                                                                                        Appli
Appli
Appli
                                                                                       Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 68 SRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVF--- 124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 37, Application US/09724864

Patent No. 6380362

GENERAL INFORMATION:
APPLICANT: Watson, James D
APPLICANT: Watson, James G
TITLE OF INVENTION: Polynucleotides polypeptides expressed
TITLE OF INVENTION: Dy the polynucleotides and methods for their use.
FILE REFERENCE: 11000.105011
CURRENT APPLICATION NUMBER: US/09/724,864
CURRENT FILICAG DATE: 2000-11-28
PRIOR APPLICATION NUMBER: US. No. 6380362 60/171,678
PRIOR FILING DATE: 1999-12-3
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25 PSKGQDTSEELLR------DGPLN 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence Sequence Sequence
                                                                                                                      Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                             Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence (Sequence (Sequen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 205;
                                                                                                                                                                                                                                             US-08-974-549A-2
US-08-974-549A-344
US-08-854-050-225
US-09-430-323-225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   13.3%; Score 121; DB 4; 27.1%; Pred. No. 1.2e-05; ive 19; Mismatches 58
                                                                               JS-09-311-743-2
JS-08-974-549A-605
                                                                                                                                                              US-08-974-549A-5
US-08-851-843A-225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08-974-549A-611
US-08-974-549A-613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-974-549A-612
US-08-974-549A-600
US-08-974-549A-628
                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-128-354-2
US-09-675-321-2
US-09-052-919-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   --YRR--PCHGEKGTHKGYCLERRLYRVSLACVCV 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ALIGNMENTS
```

```
71 ISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHN-----QTVFY 125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human CTLA-8 and Uses of CTLA-8-Related Proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28 HTFPOKPESCP-------PVPGGSMKLDIGIIN---ENORVSMSRNIESRS 68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15 HTYSHWPSCCPSKGQDTSEELLRWSTVPVP----PLEPARPNRHPESCRASEDGPLNSRA 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OPERATING SYSTEM: PC_DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 120.5; DB 2
Pred. No. 9.3e-06;
                                                                                                                                                                                                                                                                                                                                                                                                                                     13.2%; Scc...
26.3%; Pred. No. >...
... 22; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121 RRK---HQGCSVSFQLEKVL--VTVGCTCVTP 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     126 RRPCHGEKGTHKGYCLERRLYRVSLACVCVRP 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     E: Genetics Institute, Inc.
87 CambridgePark Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/09/034,810
                                                                         PRIOR APPLICATION DATA:
APPLICATION NUBER: 08/514,014
FILING DATE: 11-AGG-1995
ATTORNEY/AGENT INFORMATION:
NAME: Brown, Scott A.
NEGISTRATION NUMBER: 32,724
REFERENCE/DOCKET NUMBER: G16000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Neben, Steven
Giannotti, JoAnn
Golden'Fleet, Margaret
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA: APPLICATION NUMBER: 08/685,239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 2, Application US/09034810 Patent No. 6043344
                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 498-8224
TELEFRAX: (617) 876-5851
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHRRACTERISTICS:
LENGTH: 153 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Jacobs, Kenneth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Carlin, McKeoug
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Kelleher, Kerry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Goldman, Samuel
Pittman, Debra
                                    10-APR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 13.28
Best Local Similarity 26.33
Matches 40; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Abu....STREET: 8/ ....CITY: Cambridge
                                                                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE: protein US-08-833-823-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mi, Sha
                                                                                                                                                                                                                                                                                                                                                                       linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE:
CLASSIFICATION:
                                                            CLASSIFICATION:
                   APPLICATION PFILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               02140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-034-810-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          71 ISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHN-----QTVFY 125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15 HTYSHWPSCCPSKGQDTSEELLRWSTVPVP----PLEPARPNRHPESCRASEDGPLNSRA 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28 HTFFQKPESCP-------PVPGGSMKLDIGIIN---ENQRVSMSRNIESRS 68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 153;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Jacobs, Kenneth
APPLICANT: McCoy, John
APPLICANT: Kelleher, Kerry
APPLICANT: Kelleher, Kerry
APPLICANT: Carlin, McKeough
TITLE OF INVENTION: DNA SEQUENCES AND SECRETED PROTEINS
TITLE OF INVENTION: ENCODED THEREBY
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genetics Institute, Inc. -- Legal Affairs
STREET: RambridgePark Drive
CITY: CambridgePark Drive
STATE: Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                           SYSTEM: PC-DOS/MS-DOS
PatentIn Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .3e-06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
13.2%; Score 120.5; D
Best Local Similarity 26.3%; Pred. No. 9.3e-
Matches 40; Conservative 22; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       126 RRPCHGEKGTHKGYCLERRLYRVSLACVCVRP 157
                 CORRESPONDENCE ADDRESS:
ADDRESSEE: Genetics Institute, Inc.
STREET: 87 CambridgePark Drive
                                                                                                                                                                                                                                                                                                      FILING DATE:
CLASSIFICATION: 514
ATORNEY/AGENT INFORMATION:
NAME: BLOWN, SCOTT A.
REGISTRATION NUMBER: 32,724
REFERENCE/POCKET NUMBER: GI6000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 498-8224
                                                                                                                                                                                                                                                             CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/514,014
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDIUM TYPE: Floppy disk COMPUTER: IBM PC COMPATIBLE OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 12, Application US/08833823 Patent No. 5969093
                                                                                                                                                                     ALOPPY disk
COMPATIBLE
OPERATING SYSTEM: PC-POTTABLE
SOFTWARE: Part PREVENT
                                                                                                                                         ZIP: 02140
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEFAX: (617) 876-5851 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          : 153 amino acids
amino acid
NUMBER OF SEQUENCES: 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; MOLECULE TYPE: protein US-08-514-014-12
                                                                                                     Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
                                                                                 Cambridge
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                      COUNTRY: US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: U;
ZIP: 02140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
```

```
71 ISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHN-----QTVFY 125
                                                                                                                                                                                         41; Gaps
                                                                                                                                                                                                                              15 HTYSHWPSCCPSKGQDTSEELLRWSTVPVP----PLEPARPNRHPESCRASEDGPLNSRA 70
                                                                                                                                                                                                                                                                   38 HTFFQKPESCP------PVPGGSMKLDIGIIN---ENQRVSMSRNIESRS 78
                                                                                                                                                    Length 163;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Banchereau, Jacques
TITLE OF INVENTION: PURIFIED MAMMALIAN CTLA-8 ANTIGENS AND
TITLE OF INVENTION: RELATED REAGENTS
                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/432,994A
FILING DATE: 02-MAY-1995
                                                                                                                                                 13.2%; Score 120.5; DB 3; 26.3%; Pred. No. 1e-05; ive 22; Mismatches 49;
                                                                                                                                                                                                                                                                                                                                                                                                            126 RRPCHGEKGTHKGYCLERRLYRVSLACVCVRP 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AFILING DATE: 27-MAY-1944
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/177,747
FILING DATE: 05-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/077,203
FILING DATE: 14-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Ching, Edwin P.
REGISTRATION NUMBER: 34,090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DNAX Research Institute
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ZIP: 94304-1104
COMPUTER READABLE FORM:
MEDIUW TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1 0 "
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: 02-MAY-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/250,846
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DX0388K3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 8, Application US/08432994A Patent No. 6274711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     , Serge J.E. Odile
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         901 California Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Rouvier, Eric
Fossiez, Francois
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE/DOCKET NUMBER: DY
TELECOMMUNICATION INFORMATION
TELEPHONE: 415-852-9196
TYPE: anino acids TOPOLOGY: ling
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Golstein, Pierre
                                                                                                                                                 Query Match 13.2
Best Local Similarity 26.3
Matches 40; Conservative
              SEQUENCE CHARACTERISTICS:
LENGTH: 163 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: 415-496-1200 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                      ; MOLECULE TYPE: protein US-08-685-239-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
ADDRESSEE: DNAX Rese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Lebecque,
Djossou, (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Palo Alto
California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 6
US-08-432-994A-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                             131
                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                   ద
                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                71 ISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHN----QTVFY 125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 79 TSPWNYTVTWDPNRXPSEVVQAQCRNLGCINAQ------GKEDISMNSVPIQQETLVV 130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human CTLA-8 and Uses of CTLA-8-Related Proteins
                                                                                                                                                                                                                                                                                                                                                                                                    15 HTYSHWPSCCPSKGQDTSEELLRWSTVPVP----PLEPARPNRHPESCRASEDGPLNSRA 70
                                                                                                                                                                                                                                                                                                                                                                                                                                         38 HTFFOKPESCP-------PVPGGSMKLDIGIIN---ENQRVSMSRNIESRS 78
                                                                                                                                                                                                                                                                                                                            Length 163;
                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                 46;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                      Query Match 13.2%; Score 120.5; DB Best Local Similarity 26.3%; Pred. No. 1e-05; Matches 40; Conservative 22; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                126 RRPCHGEKGTHKGYCLERRLYRVSLACVCVRP 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     131 RRK---HOGCSVSFQLEKVL--VTVGCTCVTP 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        E: Genetics Institute, Inc.
87 CambridgePark Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/685,239
                                                                                      GI5262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Neben, Steven
Giannotti, JoAnn
Golden'Fleet, Margaret
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 2, Application US/08685239
Patent No. 6074849
                                Scott A. 32,724
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                                REFERENCE/DOCKET NUMBER: GI
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 498-8224
TELEFAX: (617) 876-5851
INFORMATION FOR SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME: Brown, Scott A.
REGISTRATION NUMBER: 32,724
REFERENCE/DOCKET NUMBER: GI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Carlin, McKeough
                            ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Kelleher, Kerry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Goldman, Samuel
Pittman, Debra
                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
LENGTH: 163 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: (617) 876-5851
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                          ; MOLECULE TYPE: protein US-09-034-810-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CITY: Cambridge
STATE: Massachusetts
COUNTRY: USA
                                             NAME: Brown, Scott A REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: HUNDBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mi, Sha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OPERATING SYSTEM:
                                                                                                                                                                                                                            amino acid
                                                                                                                                                                                                                                                inear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       02140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE:
                                                                                                                                                                                                                                            TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-08-685-239-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STREET:
                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
```

us-10-037-591a-2.rai

```
Herpesvirus Saimiri
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     02140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEPHONE:
ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY:
                       ; STRAIN: (
US-08-620-694A-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-034-810-6
                                                                                                                                                                                                                                                                                                                      RESULT 8
US-09-034-810-6
                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                   δ
                                                                                                                                                                                        g
                                                                                                                                                                                                                             δλ
                                                                                                                                                                                                                                                              QQ
                                                                                                                                                                                                                                                                                88 VIWEAK -- CRHLGCINADGNVDYHMNSVPIQOEILVLRREPPH---- CPNSFRLEKIL-- 139
                                                                                                                                                                                                                                             88 DLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYR 147
                                                                                                                                  25; Gaps
                                                                                                                                                                                            28 PRNPGCPNSEDKNFPRTVMVNLNIHNRNTNTNPKRSSDYYNRSTSPWNLHRNEDPERYPS 87
                                                                                                                                                                   45 PLEPARPNRHPESC------RASEDGPLNS-----RAISPWRYELDRDLNRLPQ 87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
APPLICANT: Yao, Zhengbin
APPLICANT: Spriggs, Melanie
APPLICANT: Fanslow, William
TITLE OF INVENTION: No. 5869286el Receptor That Binds IL-17
NUMBER OF SEQUENCES: 10
                                                                                         ; Score 96.5; DB 4; Length 155; Pred. No. 0.0041; 15; Mismatches 58; Indels 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Apple, Version 6.0.1
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION DATA:
PRIOR APPLICATION NUMBER: USSN 08/538,765
FILING DATE: 7 AGGUST 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   USSN 08/410,535
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              JMBER: US/08/620,694A
21 MARCH 1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 8, Application US/08620694A Patent No. 5869286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: Immunex Corporation
STREET: 51 University Street
CITY: Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 7 AUCE
FILING DATE: 7 AUCE
CLASSIFICATION: 435
PRIOR APPLICATION DATA: APPLICATION NUMBER: USSN 08/4
APPLICATION NUMBER: USSN 08/4
TITING DATE: 23 MARCH 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,695
REPERENCE/DOCKET NUMBER: 2617
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 151 amino acids TYPE: amino acid STRANDEDNESS: not relevant
                                                                                           10.6%;
25.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEPHONE: (206)587-0430
TELEFAX: (206)
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
                                                                                           Query Match 10.6
Best Local Similarity 25.8
Matches 34; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-432-994A-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER:
FILING DATE: 21 MARG
                                                                                                                                                                                                                                                                                                                      148 VSLACVCVRPRV 159
                                                                                                                                                                                                                                                                                                                                                         140 VSVGCTCVTPIV 151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ANTI-SENSE: NO ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               98101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MA
                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-620-694A-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STATE:
                                                                                                                                                                     à
                                                                                                                                                                                                        a
                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                         셤
```

```
3
                                                                                                                                     52 NRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPR 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human, CTLA-8 and Uses of CTLA-8-Related Proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         52 NRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPR 111
                                                                                                                                                                 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19;
                                                                                                                                                                                                                                              100 GNVD--YHMNSVPIQQEILVVRKGHQPCPNSFRLEKML--VTVGCTCVTPIV 147
                                                                                                                                                                                                                   112 GNSELLYHNQTVFYRRPC----HGEKGTHKGYCLERRLYRVSLACVCVRPRV 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10.2%; Score 92.5; DB 3; Length 151; 27.7%; Pred. No. 0.011; Live 19; Mismatches 43; Indels 19
                                                          Length 151;
                                                                                                43; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          E: Floppy disk
IBM PC compatible
CC DOS/AKS-DOS
PATENTEN: PC-DOS/AKS-DOS
PATENTIN Release #1.0, Version #1.25
                                                    ; Score 92.5; DB 2;
; Pred. No. 0.011;
19; Mismatches 43;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3: Genetics Institute, Inc
87 CambridgePark Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/034,810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Golden'Fleet, Margaret
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE/DOCKET NUMBER: G15262
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION BAPA:
APPLICATION NUMBER: 08/685,239
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                               Sequence 6, Application US/09034810 Patent No. 6043344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          32,724
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Giannotti, JoAnn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Carlin, McKeough
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Kelleher, Kerry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3oldman, Samuel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pittman, Debra
Mi, Sha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      : 151 amino acids
amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (617) 876-5851
                                                          Query Match 10.29
Best Local Similarity 27.79
Matches 31; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best_Local Similarity 27.79
Matches 31; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Neben, Steven
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Brown, Scott A. REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STREET: 8/ currentry: Cambridge
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear
                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
ORF13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULE TYPE:
```

-- 99

51 NWNTSSKRASD---YYNRSTSPWTLHRNEDQDRYPSVIWEAKCRYLGCVNAD----

a

```
RESULT 11
US-08-685-239-6
; Sequence 6, Application US/08685239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE:
                                                                                                                                                                                                                                                                                                       COUNTRY: U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-022-696-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          52 NRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPR 111
112 GNSELLYHNQTVFYRRPC----HGEKGTHKGYCLERRLYRVSLACVCVRPRV 159
                          100 GNVD--YHMNSVPIQQEILVVRKGHQPCPNSFRLEKML--VTVGCTCVTPIV 147
                                                                                                                                                                           GENERAL INFORMATION:
APPLICANT: Yao, Zhengbin
APPLICANT: Spriggs, Melanie
APPLICANT: Fanslow, William
TITLE OF INVENTION: No. 607203381 Receptor That Binds IL-17
NUMBER OF SEQUENCES: 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        112 GNSELLYHNQTVFYRRPC----HGEKGTHKGYCLERRLYRVSLACVCVRPRV 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 10.2%; Score 92.5; DB 3; Length 151; Best Local Similarity 27.7%; Pred. No. 0.011; Matches 31; Conservative 19; Mismatches 43; Indels 1
                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Apple, Version 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/022,255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION:
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USN 08/620,694
FILING DATE: 21 MARCH 1996
APPLICATION NUMBER: USN 08/538,765
FILING DATE: 7 AUGUST 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USN 08/410,535
FILING DATE: 23 MARCH 1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,695
REFERNCE/DOCKET NUMBER: 2617-B
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
                                                                                                                                                                                                                                                                                                     STREET: 51 University Street CITY: Seattle
                                                                                             RESULT 9
US-09-022-255-8
; Sequence 8, Application US/09022255
; Patent No. 6072033
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM: Herpesvirus Saimiri
STRAIN: ORF13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRANDEDNESS: not relevant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO: 8: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    151 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ANTI-SENSE: NO ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                    USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                     98101
                                                                                                                                                                                                                                                                                                                                                                             STATE: W
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH:
                                     셤
  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
```

```
52 NRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPR 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               19; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
APPLICANT: Yao, Zhengbin
APPLICANT: Spriggs, Melanie
APPLICANT: Fanslow, William
TITLE OF INVENTION: No. 6072037el Receptor That Binds IL-17
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation
STREET: 51 University Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             112 GNSELLYHNQTVFYRRPC----HGEKGTHKGYCLERRLYRVSLACVCVRPRV 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10 GNVD--YHMNSVPIQQEILVVRKGHQPCPNSFRLEKML--VTVGCTCVTPIV,147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 151;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 10.2%; Score 92.5; DB 3; Length 1: Best Local Similarity 27.7%; Pred. No. 0.011; Matches 31; Conservative 19; Mismatches 43; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: Microsoft word for Apple, Version 6.0.1 CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/022.696
                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  USSN 08/410,535
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,695
REFERENCE/DOCKET NUMBER: 2617-E
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
Sequence 8, Application US/09022696
Patent No. 6072037
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/620,694
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Herpesvirus Saimiri
STRAIN: ORF13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08
FILING DATE: 23 MARCH 1995
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       not relevant
                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      : 151 amino acids
amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INFORMATION FOR SEC ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                linear
                                                                                                                                                                                                                  STREET: DITTERY: Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ANTI-SENSE: NO ORIGINAL SOURCE:
```

```
ZIP: 98101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; STRAIN:
US-09-022-253-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 13
US-09-022-260-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δ
                                                                                       Neben, Steven
Galanotti, Joann
Golden, Fleet, Margaret
WENTION: Human CTLA-8 and Uses of CTLA-8-Related Proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          52 NRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPR 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 112 GNSELLYHNQTVFYRRPC----HGEKGTHKGYCLERRLYRVSLACVCVRPRV 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100 GNVD--YHMNSVPIQQEILVVRKGHQPCPNSFRLEKML--VTVGCTCVTPIV 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Agrent No. 609630.
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Yao, Zhengbin
APPLICANT: Springs, Melanie
APPLICANT: Fanslow, William
APPLICANT: Fanslow, William
APPLICANT: 10 6096305el Receptor That Binds IL-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ouery Match
Best Local Similarity 27.7%; Pred. No. 0.011;
Matches 31; Conservative 19; Mismatches 43; Indels 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.011;
-hes 43; Indels
                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/685,239
                                                                                                                                                                                                 ADDRESSEE: Genetics Institute, Inc.
STREET: 87 CambridgePark Drive
CITY: Cambridge
STATE: Massachusetts
COUNTRY: USA
                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 8, Application US/09022253 Patent No. 6096305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NTTORNEY/AGENT INFORMATION:
NAME: Brown, Scott A.
REGISTRATION NUMBER: 32,724
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELECOMMUNICATION INFORMATION
TELEPHONE: (617) 496-8224
TELEPHONE: (617) 876-5851
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
Kelleher, Kerry
Carlin, McKeough
                                  Goldman, Samuel
Pittman, Debra
Mi, Sha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      : 151 amino acids
amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; MOLECULE TYPE: protein US-08-685-239-6
                                                                                                                                       OFFICANT: COLUMN THE MANUALE OF INVENTION: HUNDER OF SEQUENCES: 9 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STREET: 51 vi-
                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE:
                                                                                                          APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 12
US-09-022-253-8
                                APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  င်
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   q
```

```
52 NRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPR 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        112 GNSELLYHNQTVFYRRPC----HGEKGTHKGYCLERRLYRVSLACVCVRPRV 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100 GNVD--YHMNSVPIQQEILVVRKGHQPCPNSFRLEKML--VTVGCTCVTPIV 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Yao, Zhengbin
APPLICANT: Sprigss, Melanie
APPLICANT: Sprigss, Melanie
APPLICANT: Sprigss, Melanie
APPLICANT: Panslow, William
TITLE OF INVENTION: No. 6100235el Receptor That Binds IL-17
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESSE: Immunex Corporation
STREET: 51 University Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 3; Length 151;
                                                                             SOFTWARE: Microsoft Word for Apple, Version 6.0.1 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/022,253
                                                          Apple Operating System 7.5.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10.2%; Score 92.5; DB 3 27.7%; Pred. No. 0.011; Live 19; Mismatches 4
                                                                                                                                                                                                                                                                                  FILING DATE: 7 AUGUST 1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
PILING DATE: 23 MARCH 1995
                                                                                                                                                                                                                                                      JMBER: USSN 08/538,765
7 AUGUST 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 151 amino acids
TYPE: amino acid
STRANDEDNESS: No. 6096305 Relevant
                                                                                                                                                                         CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/620,694
FILING DATE: 21-MARCH-1996
APPLICATION NUMBER: USSN 08/538,7
                                          Macintosh
                                                                                                                                                                                                                                                                                                                                                                         FILING DATE.

CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: PERKINS, PATICIA Anne
REGISTRATION NUMBER: 34,695
REFERENCE/DOCKET NUMBER: 2617-
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; Sequence 8, Application US/09022260; Patent No. 6100235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Herpesvirus Saimiri
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                  MEDIUM TYPE: Floppy disk
COMPUTER: Apple Power Ma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  31; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: (206)
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: protein HYPOTHETICAL: NO
COMPUTER READABLE FORM:
                                                               OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORF13
                                                                                                                                                        FILING DATE:
```

```
52 NRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPR 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 112 GNSELLYHNQTVFYRRPC----HGEKGTHKGYCLERRLYRVSLACVCVRPRV 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100 GNVD--YHMNSVPIQQEILVVRKGHQPCPNSFRLEKML--VTVGCTCVTPIV 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 8, Application US/09022257
Sequence 8, Application US/09022257
Settle No. 6197525
GENERAL INFORMATION:
APPLICANT: Yao, Zhengbin
APPLICANT: Spriggs, Melanie
APPLICANT: Fanslow, William
TITLE OF INVENTION: No. 6197525el Receptor That Binds IL-17
NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation
STREET: 51 University Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: Microsoft Word for Apple, Version 6.0.1 CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/no? 2.7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10.2%; Score 92.5; DB 4
27.7%; Pred. No. 0.011;
Live 19; Mismatches 4
                                                                                                  CLASSIFICATION:
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
FILING DATE: 23 MARCH 1995
CLASSIFICATION:
ATTORNEY FAGNT ITHFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,695
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEFHONE: (206)587-0430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY: USA
ZIP: 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operatir
                         CLASSIFICATION:
PARIOR APPLICATION DATA:
APPLICATION NUMBER: 08/620,694
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/620,694
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Herpesvirus Salmiri
STRAIN: ORF13
                                                                                                                                                                                                                                                                                                                                                                                                                                              not relevant
                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 151 amino acids TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                      TELEFAX: (206)
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE: protein HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity
Matches 31; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                   STRANDEDNESS:
TOPOLOGY: lin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HYPOTHETICAL: NA ANTI-SENSE: NO ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; STRAIN:
US-09-022-259-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-022-257-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δλ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          52 NRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPR 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100 GNVD--YHMNSVPIQQEILVVRKGHQPCPNSFRLEKML--VTVGCTCVTPIV 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            112 GNSELLYHNQTVFYRRPC----HGEKGTHKGYCLERRLYRVSLACVCVRPRV 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 10.2%; Score 92.5; DB 3; Length 151; Best Local Similarity 27.7%; Pred. No. 0.011; Matches 31; Conservative 19; Mismatches 43; Indels 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              No. 6191104el Receptor That Binds IL-17
COMPUTER: Apple Power Macintosh OPERATING SYSTEM: Apple Operating System 7.5.5. SOFTWARE: Microsoft Word for Apple, Version 6.0.1 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/022,260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Apple Power Macintosh
SYSTEM: Apple Operating System 7.5.5
Microsoft Word for Apple, Version 6.0.1
                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/410,535
FILING DATE: 23 MARCH 1995
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US/09/022,259
                                                                                                                                                                                                                                                                                                                                                                             2617-B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STREET: 51 University Street CITY: Seattle STATE: WA
                                                                                                                        CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/620,694
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 8, Application US/09022259 Patent No. 6191104
                                                                                                                                                                                                                                                                                                          ATTORNEY AGENT INFORMATION:
NAME:
PERKINS, PALTICLA Anne
REGISTRATION NUMBER: 34,695
REFERENCE/DOCKET NUMBER: 2617
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Herpesvirus Saimiri
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Yao, Zhengbin
APPLICANT: Spriggs, Melanie
APPLICANT: FENSIOW, William
TITLE OF INVENTION: No. 619110
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   not relevant
                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO: 8: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY: USA
ZIP: 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: FlOPPY disk
                                                                                                                                                                                                                                                                                                                                                                                                                      (206)587-0430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 151 amino acids TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: Apple POPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                      FILING DATE:
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RIGANISM: Herpe
ORGANISM: Herpe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORIGINAL SOURCE:
                                                                                                         FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                    TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ANTI-SENSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-022-260-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-022-259-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
```

5,

19;

DB 4; Length 151;

```
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/410,535
FILING DATE: 23 MARCH 1995
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: PERKING, PAITICIA Anne
REGISTRATION NUMBER: 34,695
REGISTRATION NUMBER: 2617-B
TELECOMMONICATION INFORMATION:
"TELECOMMONICATION INFORMATION:
"TELECOMMONICATION INFORMATION:
"TELECOMMONICATION INFORMATION:
"TELECOMMONICATION INFORMATION:
"TELECOMMONICATION INFORMATION:
"TELECOMMONICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                         TELEFRAX: (206)
| INFORMATION FOR SEQ ID NO: 8:
| SEQUENCE CHARACTERISTICS:
| LENGTH: 151 amino acids
| TYPE: amino acid
| STRANDEDNESS: not relevant
| TOPOLOGY: linear
| MOLECULE TYPE: protein
| HYPOTHETICAL: NO
| ANTI-SENSE: NO
| ORIGINAL SOURCE:
| ORGANISM: Herpesvirus Saimiri
| STRAIN: ORFII3
```

52 NRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPR 111 Query Match
10.2%; Score 92.5; DB 4; Length 151;
Best Local Similarity 27.7%; Pred. No. 0.011;
Matches 31; Conservative 19; Mismatches 43; Indels 1

ò g ò g

112 GNSELLYHNQTVFYRRPC----HGEKGTHKGYCLERRLYRVSLACVCVRPRV 159

100 GNVD--YHMNSVPIQQEILVVRKGHQPCPNSFRLEKML--VTVGCTCVTPIV-147

Search completed: May 12, 2003, 02:02:52 Job time : 24 secs

```
(without alignments) 510.901 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                             US-10-037-591A-2
910
1 MYQVVAFLAMVMGTHTYSHW......ERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*/cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:*/cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*/cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*/cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*
                                                                                                                                                                 May 12, 2003, 01:58:09; Search time 29 Seconds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.
eqn2_6/ptodata/2/pubpaa/USOB_PUBCOMB.pep:*
cgn2_6/ptodata/2/pubpaa/USO9_NEW_PUB.pep:*
/cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                349150
GenCore version 5.1.4\_p5\_4578 Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ptodata/2/pubpaa/US07_NEW_PUB.
ptodata/2/pubpaa/US07_PUBCOMB.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Prodata/2/pubbaa/PCT_NEW_PUB.[
ptodata/2/pubpaa/US06_NEW_PUB.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /ptodata/2/pubpaa/US08_
/ptodata/2/pubpaa/PCT_N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               349150 seqs, 92025710 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Post-processing: Minimum Match 08
Maximum Match 1008
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Published Applications AA:
                                                                                                         OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Minimum DB seq length: 0
Maximum DB seq length: 2000000000
                                                                                                                                                                                                                                                                             Title:
Perfect score:
Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Database :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Searched:
                                                                                                                                                                 Run on:
```

SUMMARIES

•	•								•		٠									
Description	Sequence 2, Appli	Sequence 6, Appli	Sequence 6, Appli	Sequence 156, App		9		156,	Sequence 156, App	156,	156,	6, A	Sequence 18, Appl	Sequence 156, App	Sequence 156, App	156,	18, A	18	156,	
OI	US-09-886-404-2	US-09-874-503-6	US-10-000-157-6	US-10-063-547-156	US-09-816-744-6	US-09-747-259-6	US-10-063-616-156	US-10-063-502-156	US-10-063-518-156	US-10-063-598-156	US-10-227-693-156	US-09-908-827-6	US-10-213-181-18	US-10-063-567-156	US-10-063-538-156	US-10-063-599-156	US-10-212-912-18	US-10-213-044-18	US-10-063-595-156	
DB	10	o	6	6	δ	6	σ	6	6	σ.	σ	σ	6	6	თ	σ	σ	σ	σ	
Length DB	161	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	177	
% Query Match I	100.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	
Score	910	868	868	868	868	868	868	868	868	868	868	868	868	868	868	868	868	868	868	
Result No.	н	7	m	4	2	9	7	œ	6	10	11	12	13	14	15	16	17	18	19	

Sequence 156, Apple Sequence 4, Appl. Sequence 24, Appl. Sequence 24, Appl. Sequence 24, Appl. Sequence 11, Appl. Sequence 148, Appl. Sequence 448, Appl. Sequence 11, Appl. Sequence 11, Appl. Sequence 148, Appl. Sequence 11, Appl. Sequence 448, Appl.		Thereof		Length 161; Indels 0; Gap	PPLEFARENCHESCRA 00 	SELQTGSHMDPRGNSELLYHN 120 	61
US-10-006-867-156 US-09-886-404-10 US-09-886-404-10 US-09-854-280-24 US-09-874-503-4 US-10-000-157-4 US-10-000-157-4 US-10-035-041-11 US-10-035-041-11 US-10-036-041-11 US-10-036-041-11 US-10-136-048-448 US-10-175-737-448 US-10-175-738-448 US-10-175-738-448 US-10-175-738-448 US-10-175-738-448 US-10-175-738-448 US-10-175-738-448 US-10-175-738-448 US-10-175-738-448 US-10-175-738-448 US-10-175-738-448 US-10-175-738-448 US-10-175-738-448 US-10-175-738-448 US-10-175-738-448 US-10-175-738-448 US-10-175-738-448 US-10-176-913-448 US-10-173-700-448	ALIGNMENTS 09886404	M. ke Molecules and Uses US/09/886,404 6-21 6-21 6-21 7810,384 6 7266,159 2 7213,125		Score 910; DB 10 Pred. No. 2.5e-78 0; Mismatches 0	CCPSKGQDTSEELLKWSTVPV 	EDGPLNSRAISPWRYELDRDLNRLPODLYHARCLCPHCVSLC 	QTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 1
98.7 77.9 18.7 18.7 18.2 18.2 18.2 18.2 18.2 18.2 19.7 9 18.2 19.7 19.7 9 18.2 18.2 19.7 19.	plication US/098 0020037524A1 ATION. Eugene	hard ', Scott Gary S. Hary	omo sapiens	100.0%; ilarity 100.0%; Conservative	MYQVVAFLAMVMGTHTYSHWPSCCPS 	NSRAISPWRYELDRDL1 	RPCHGEKGTHKGYCLEI
20 898 221 709 222 223 17670 222 224 17670 222 224 17670 222 224 1265.5 228 165.5 228 165.5 233 2 165.5 233 2 165.5 244 1 165.5 244 1 165.5 244 1 165.5 244 1 165.5 244 1 165.5 244 1 165.5 244 1 165.5 244 1 165.5 244 1 165.5 244 1 165.5 244 1 165.5 244 1 165.5 244 1 165.5 244 1 165.5 244 1 165.5 244 1 165.5 244 1 165.5 244 1 165.5 245	SULT 1 -09-886-404-2 Sequence 2, Ap Patent No. US2 GENERAL INFORM	APPLICANT: YEL, RIL APPLICANT: SID1ger APPLICANT: BID1ger APPLICANT: BID1ger APPLICANT: Jing, SI TITLE OF INVENTION: FILE REFERENCE: 0101 CURRENT FILING DATE: PRIOR APPLICATION NU PRIOR FILING DATE: 2 PRIOR FILING DATE: 2 PRIOR FILING DATE: 3 PRIOR FILING DATE: 3 NUMBER OF SEQ ID NOS SEQ ID NO 2	STH: 161 E: PRT ANISM: H 36-404-2	σ υ	1 MYQVVA. 11111 1 MYQVVA.	61 SEDGPL SEDGPL	121 OTVFYR
	ET 03	: < < < < < < < < < < < < < < < < < < <	0-SD	Ou Be Ma	a B	Qy	Qy

```
IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
121 QTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILE REFERENCE: P1381R1C1P3 (US)
CURRENT APPLICATION NUMBER: US/09/874,503
CURRENT FILING DATE: 2001-06-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 2000-06-22
PPLICATION NUMBER: US 60/172,096
FILING DATE: 1999-12-23
APPLICATION NUMBER: US 60/138,387
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 1999-08-25
APPLICATION NUMBER: US 09/311,832
FILING DATE: 1999-05-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US 60/253,646
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: 2000-11-28
APPLICATION NUMBER: US 60/244,072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 2000-10-26
APPLICATION NUMBER: US 60/242,837
FILING DATE: 2000-10-24
APPLICATION NUMBER: US 60/175,481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 1998-12-23
APPLICATION NUMBER: US 60/085,579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US 09/854,208
FILING DATE: 2001-05-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: 2001-03-22
APPLICATION NUMBER: US 09/747,259
FILING DATE: 2000-12-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 2000-08-22
APPLICATION NUMBER: US 09/380,142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 1999-08-25
APPLICATION NUMBER: US 09/380,138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 1999-04-26 APPLICATION NUMBER: US 60/130,232
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US 09/854,280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US 09/644,848
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US 60/191,007 FILING DATE: 2000-03-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 1999-06-09
APPLICATION NUMBER: US 60/134,287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PLICATION NUMBER: US 60/131,022
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: 1999-04-21
APPLICATION NUMBER: US 60/113,621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US 09/816,744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US 60/213,807
                                                                                                                                                                                                                                                                                   Grimaldi,J.Christopher
                                                                                                                    Sequence 6, Application US/09874503
Patent No. US20020177188A1
                                                                                                                                                                                                                                                                                                                                                                                                     carovasnik, Melissa A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2000-01-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1999-05-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1998-05-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3001-05-20
                                                                                                                                                                                                                                                                                                                                                                                                                            anLookeren, Menno
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       illiams, P.Mickey
                                                                                                                                                                                                                                                                                                                                         Hillan,Kenneth J.
Hymowitz,Sarah G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Watanabe, Colin K
                                                                                                                                                                                                                                                                                                   Gurney, Austin L.
                                                                                                                                                                                                   lvaroff, Ellen
                                                                                                                                                                                                                                           Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE:
                                                                                                                                                            INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LING
                                                                                                 US-09-874-503-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RIOR
                  Q
```

```
63 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    19 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              19 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 177;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       123 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         139 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pred. No. 3.8e-77;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 898; DB 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 98.7%; Score 898; DE Best Local Similarity 100.0%; Pred. No. 3.8 Matches 159; Conservative 0; Mismatches
                                                                     FILING DATE: 2000-12-01
APPLICATION NUMBER: US PCT/US00/30873
FILING DATE: 2000-11-10
APPLICATION NUMBER: US PCT/US00/23328
FILING DATE: 2000-08-24
APPLICATION NUMBER: US PCT/US00/15264
                                                                                                                                                                             FILING DATE: 2000-06-02
APPLICATION NUMBER: US PCT/US00/07532
FILING DATE: 2000-03-21
                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 1999-12-30 APPLICATION NUMBER: US PCT/US99/10733
TLING DATE: 2001-02-28 APPLICATION NUMBER: US PCT/US00/34956
                                                    APPLICATION NUMBER: US PCT/US00/32678
                                                                                                                                                                                                                 FILING DATE: 2000-03-21
APPLICATION NUMBER: US PCT/US00/05841
FILING DATE: 2000-03-02
APPLICATION NUMBER: US PCT/US00/05601
                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US PCT/US00/04341
                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US PCT/US99/31274
                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US PCT/US99/05028
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Godowski, Paul L.
Grimaldi, J.Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 6, Application US/10000157 Publication No. US20020182673A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Starovasnik, Melissa
VanLookeren, Menno
Vandlen, Richard
                                                                                                                                                                                                                                                                                                                          2000-02-18
                                                                                                                                                                                                                                                                                                                                                                                                  1999-05-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gurney, Austin
Li, Hanzhong
Hillan, Kenneth J.
                                     3000-12-20
                                                                                                                                                                                                                                                                                          2000-03-01
                                                                                                                                                                                                                                                                                                                                                                                                                                      1999-03-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Chen, Jian
Filvaroff, Ellen
Fong, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hymowitz, Sarah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           umas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR FILING DATE: 1999-
NUMBER OF SEQ ID NOS: 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
CORGANISM: Homo Sapien
US-09-874-503-6
                                                                                                                                                                                                                                                                                            FILING DATE:
                                                                                                                                                                                                                                                                                                                            FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQ ID NO 6
                                     PRIOR
                                                                                                                                                                                                                                                                      PRIOR
PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                             PRIOR
PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        å
```

Watanabe, Colin Williams, P.Mickey Wood, William

Yansura, Daniel

APPLICANT: APPLICANT:

```
79 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHWDPRGNSELLYHNQT 138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                63 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 177;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 177;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Prior Application removed - See File Wrapper or Palm NUMBER OF SEQ ID NOS: 170 SEQ ID NO 156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 98.7%; Score 898; DB 9; 1
Best Local Similarity 100.0%; Pred. No. 3.8e-77;
Matches 159; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       139 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 898; DB 9;
Pred. No. 3.8e-77;
                                                                              PRIOR APPLICATION NUMBER: PCT/US00/326/8
PRIOR FILING DATE: 2000-12-01
PRIOR FILING DATE: 2000-12-01
PRIOR PAPLICATION NUMBER: PCT/US00/34956
PRIOR PAPLICATION NUMBER: PCT/US01/06520
PRIOR APPLICATION NUMBER: PCT/US01/17800
PRIOR PILING DATE: 2001-06-01
PRIOR PILING DATE: 2001-06-01
PRIOR PILING DATE: 2001-06-01
PRIOR PILING DATE: 2001-06-01
PRIOR PILING DATE: 2001-06-20
PRIOR PILING DATE: 2001-07-09
NUMBER OF SEQ ID NOS: 39
SEQ ID NO 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pred. No. 3.8
Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILE REFERENCE: P3230R1C1
CURRENT APPLICATION NUMBER: US/10/063,547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 156, Application US/10063547
Publication No. US20020182638A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            98., ...
100.08; Pir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Godowski, Paul J.
Grimaldi, Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2002-05-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gurney, Austin L.
Watanabe, Colin K.
Wood, William I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ) ORGANISM: Homo Sapien
US-10-000-157-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-063-547-156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             al Similarity
159; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT FILING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local S
Matches 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ô
INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
                                                     CURRENT APPLICATION NUMBER: US/10/000,157 CURRENT FILING DATE: 2001-10-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ING DATE: 2001-08-16
LICATION NUMBER: PCT/US99/05028
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LICATION NUMBER: PCT/US99/10733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LICATION NUMBER: PCT/US99/31274
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: PCT/US00/04341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: PCT/US00/05841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PLICATION NUMBER: PCT/US00/15264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 2000-06-02
APPLICATION NUMBER: PCT/US00/23328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: PCT/US00/05601
                                                                                            PRIOR FILING DATE: 1000-008579
PRIOR FILING DATE: 1998-05-15
PRIOR FILING DATE: 1998-05-15
PRIOR PELING DATE: 1998-05-15
PRIOR PELING DATE: 1998-05-12
PRIOR PELING DATE: 1998-04-21
PRIOR PILING DATE: 1999-04-21
PRIOR PILING DATE: 1999-04-26
PRIOR PELING DATE: 1999-04-26
PRIOR PELING DATE: 1999-04-26
PRIOR PELING DATE: 1999-06-19
PRIOR PELING DATE: 1999-10-23
PRIOR APPLICATION NUMBER: 60/175481
PRIOR APPLICATION NUMBER: 60/19107
PRIOR PELING DATE: 2000-03-21
PRIOR PELING DATE: 2000-03-21
PRIOR PELING DATE: 2000-03-21
PRIOR PELING DATE: 2000-03-21
PRIOR PELING DATE: 2000-10-24
PRIOR PELING DATE: 2000-10-24
PRIOR PELING DATE: 2000-10-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LING DATE: 2000-08-22
PLICATION NUMBER: 09/747259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            G DATE: 2001-05-10
CATION NUMBER: 09/854280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /380138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PLICATION NUMBER: 09/644848
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LICATION NUMBER: 09/918585
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LICATION NUMBER: 09/931836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PLICATION NUMBER: 09/380142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PLICATION NUMBER: 09/816744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CATION NUMBER: 09/874503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        09/929404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CATION NUMBER: 09/908827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LICATION NUMBER: 09/9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          999-03-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    999-12-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -08-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  001-05-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       001-06-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               999-05-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               001-03-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2000-03-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2001-05-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2001-08-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ING DATE:
  O.F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR
```

ö

ó

qq

g ò

ò

```
63 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19 QVVAFLAMYMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNPHPESCRASE 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 177;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           123 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3.8e-77;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98.7%; Score 898; DB 9;
100.0%; Pred. No. 3.8e-77
ive 0; Mismatches 0
                                                                                                                      Williams, P.Mickey
Wood, William
                                                                          VanLookeren, Menno
                                                                                         Vandlen, Richard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 100.
Matches 159; Conservative
                                            Hillan, Kenneth
                                                                                                         Watanabe, Colin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Homo Sapien
US-09-747-259-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 7
US-10-063-616-156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     QQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δλ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Д
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Yansura, Daniel
TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
FILE REFERENCE: P1381R1C1P2(US)
CURRENT APPLICATION NUMBER: US/09/816,744
CURRENT FILING DATE: 2001-03-22
PTIOR application data removed - consult PALM or file wrapper
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             63 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         79 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 138
                                                               79 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHWDPRGNSELLYHNQT 138
                                             DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3 OVVAFLAMVMGTHTYSHWPSCCPSKGODTSEELLRWSTVPVPPLEPARPNRHPESCRASE 62
19 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ;
;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 177;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     98.7%; Score 898; DB 9; 100.0%; Pred. No. 3.8e-77; 1ve 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         123 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          123 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                       139 VFYRRPCHGEKGTHKGYCLERRLYRVSLAČVCVRPRVMG 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 6, Application US/09747259 Publication No. US20030008815A1 GENERAL INFORMATION:
                                                                                                                                                                                                              Sequence 6, Application US/09816744 Publication No. US20030003546A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                       Godowski, Paul
Grimaldi, Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                VanLookeren, Menno
Vandlen, Richard
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Williams, P.Mickey Wood, William
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Chen, Jian
Filvaroff, Ellen
Fong, Sherman
Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 100.(
Matches 159, Conservative
                                                                                                                                                                                                                                                        APPLICANT: Chen, Jian
APPLICANT: Filvaroff, Ellen
                                                                                                                                                                                                                                                                                         Fong, Sherman
Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                     Li, Hanzhong
Hillan, Kenneth
                                                                                                                                                                                                                                                                                                                                                                                                                                               Watanabe,Colin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Genentech, Inc.
                                                                                                                                                                                                                                                                                                                                                    Gurney, Austin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Godowski, Pau
                                                                                                                                                                                                                                                                                                                                                                                                     Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Homo Sapien
                                                                                                                                                                                RESULT 5
US-09-816-744-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 6
US-09-747-259-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-816-744-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ID NO 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PPLICANT:
                                                                                                                                                                                                                                                                                         APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT
                                                                                                                                                                                                                                                                                                                       APPLICANT
                                            63
```

셤

ð

ò

g

ò

S

```
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME
                                                                               DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 1222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  79 DGPLINSRAISPWRYELDRDLINRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             63 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ITLE OF INVENTION: ACIDS ENCODING THE SAME
                                           78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 78
   3 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 177;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Prior Application removed - See File Wrapper or Palm NUMBER OF SEQ ID NOS: 170
SEQ ID NO 156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 9; I
3.8e-77;
                                                                                                                                                                           139 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
                                                                                                                                                       VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        123 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              139 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             98.7%; Scott No. 0. 100.0%; Pred. No. 0. Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILE REFERENCE: P3230R1C1
CURRENT APPLICATION NUMBER: US/10/063,518
CURRENT FILING DATE: 2002-05-01
                                                                                                                                                                                                                                                                                        Sequence 156, Application US/10063518 Publication No. US20030049735A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; Sequence 156, Application US/10063598; Publication No. US20030050462A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Godowski, Paul J.
Grimaldi, Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                         Godowski, Paul J.
Grimaldi, Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Watanabe, Colin K.
Wood, William I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Watanabe, Colin K.
                                                                                                                                                                                                                                                                                                                                                APPLICANT: Eaton, Dan L.
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gurney, Austin L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Eaton, Dan L.
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                         Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Wood, William I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 159; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; TYPE: PRT
; ORGANISM: HOMO
US-10-063-518-156
                                                                                                                                                                                                                                                                        -10-063-518-156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-063-598-156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH:
     3
                                       19
                                                                             63
                                                                                                                 79
                                                                                                                                                       123
                                                                             ó
                                                                                                               q
                                                                                                                                                       ò
                                                                                                                                                                                        qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                        TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME FILE REFERENCE: P32304DES: US/10/063,616 CURRENT APPLICATION NUMBER: US/10/063,616 CURRENT FILING DATE: 2002-05-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME FILE REFERENCE: P3230R1C1
CURRENT APPLICATION NUMBER: US/10/063, 502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          19 QVVAFLAMVMGTHITSHWPSCCPSKGQDISEELLRWSTVPVPPLEPARPNRHPESCRASE 78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 177;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 177;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                      Prior Application removed - See File Wrapper or Palm NUMBER OF SEQ ID NOS: 170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 170
SEQ ID NO 156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 898; DB 9; 1
Pred. No. 3.8e-77;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 898;
Application US/10063616
o. US20030013855A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 156, Application US/10063502
                                                                                                                                                                                                                                                                                                                                                                                                                                                           98.7%; Scur.
100.0%; Pre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                             Godowski, Paul J.
Grimaldi, Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2002-05-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98.7%;
100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US20030023042A1
                                                                                                                                                                     Gurney, Austin L.
Watanabe, Colin K.
Wood, William I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gerritsen, Mary E.
Goddard, Audrey
                                                 APPLICANT: Eaton, Dan L.
APPLICANT: Filvaroff, Ellen
APPLICANT: Geriltsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gurney, Austin L.
Watanabe, Colin K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Eaton, Dan L. APPLICANT: Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 100.
Matches 159; Conservative
                                                                                                             Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Wood, William I
                                                                                                                                                                                                                                                                                                                                                                                           ; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-063-616-156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 159; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Publication No. US2(GENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; ORGANISM: HOMO
US-10-063-502-156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-063-502-156
                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                           APPLICANT:
APPLICANT:
                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
                                                                                                                                                                                      APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
                                                                                                                                                                                                        APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              139
```

ö q ò

ò a

qq

9

```
APPLICANT: Yansura, Daniel TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF FILE REFERENCE: P138 HARCIPLI(105)
CURRENT APPLICATION NUMBER: US/09/908,827
CURRENT FILING DATE: 2001-07-18
123 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                                    139 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR FILING DATE: 1998-12-23
PRIOR APPLICATION NUMBER: 60/119,023
PRIOR PILING DATE: 1999-04-21
PRIOR FILING DATE: 1999-04-21
PRIOR PILING DATE: 1999-04-21
PRIOR PELICATION NUMBER: 60/134,287
PRIOR FILING DATE: 1999-05-14
PRIOR FILING DATE: 1999-05-14
PRIOR PELING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 60/172,096
PRIOR PELING DATE: 1999-12-23
PRIOR PELING DATE: 1999-12-23
PRIOR PELING DATE: 1999-06-01-11
PRIOR PELING DATE: 2000-01-11
PRIOR APPLICATION NUMBER: 60/13,807
PRIOR PELING DATE: 2000-01-12
PRIOR PELING DATE: 2000-01-12
PRIOR PELING DATE: 2000-10-26
PRIOR PELING DATE: 1999-08-25
PRIOR PELING DATE: 1999-08-25
PRIOR PELING DATE: 1999-08-25
PRIOR PELING DATE: 1999-08-25
PRIOR PELING DATE: 2001-03-20
PRIOR PELING DATE: 2001-05-10
PRIOR PELING DATE: 2001-05-10
PRIOR PELING DATE: 2001-05-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT FILING DATE: 2001-07-18
PRIOR APPLICATION UNDABER: 60/085,579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/113,621
                                                                                                                                                                                                                                                                                                                Sequence 6, Application US/09908827 Publication No. US20030054442A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Godowski, Paul
Grimaldi, Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VanLookeren, Menno
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Watanabe, Colin
Williams, P. Mickey
                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Chen, Jian
APPLICANT: Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Vandlen, Richard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Fong, Sherman
Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hillan, Kenneth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gurney, Austin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Wood, William
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Li, Hanzhong
                                                                                                                                                                                                                                                                                         US-09-908-827-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLI
                                                                                                 ... ο<u>γ</u>
                                                                                                                                                              Dp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME TITLE OF INVENTION: ACIDS ENCODING THE SAME FILE OF INVENTION: ACIDS ENCODING THE SAME FILE OF INVENTION: ACIDS ENCODING THE SAME CURRENT APPLICATION NUMBER: US/006,867 PRIOR PILLING DATE: 2001-08-26 PRIOR APPLICATION NUMBER: PCT/US00/23328 PRIOR APPLICATION NUMBER: PCT/US00/23328 PRIOR PILLING DATE: 1090-08-24 PRIOR PILLING DATE: 1090-08-25 PRIOR FILLING DATE: 1999-06-06 PRIOR FILLING DATE: 1999-06-06 PRIOR FILLING DATE: 1999-06-06 PRIOR FILLING DATE: 1999-06-06 PRIOR PILLING DATE: 1999-06-10 PRIOR FILLING DATE: 1999-06-10 PRIOR PRIOR FILLING DATE: 1999-06-10 PRIOR PRIOR FILLING DATE: 1999-06-10 PRIOR PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             79 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    63 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       63 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 78
                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 62
                                                                                                                                                                                                                                                                                                                                                       Length 177;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 177;
                                                                                                                                                                                                                                                                                                                                                                                                                    0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                    - See File Wrapper or Palm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3.8e-77;
                                                                                                                                                                                                                                                                                                                                                    Query Match 98.7%; Score 898; DB 9; Best Local Similarity 100.0%; Pred. No. 3.8e-77; Matches 159; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     123 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VEYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 898;
                                          US/10/063,598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Application US/10227693
o. US20030050465A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98.7%; Scc.
100.0%; Pre
0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gerritsen, Mary E.
Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gurney, Austin L.
Watanabe, Colin K
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ENEKAL INC.
APPLICANT: Eaton, Dan L.
APPLICANT: Filvaroff, Ellen
         FILE REFERENCE: P3230R1C1
CURRENT APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Godowski, Paul J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        al Similarity 100.
159; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Wood, William I
                                                                                                 Prior Application removed
NUMBER OF SEQ ID NOS: 170
SEQ ID NO 156
LENGTH: 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Homo Sapien
US-10-227-693-156
                                                                                                                                                                                                                                                         CRGANISM: Homo Sapien US-10-063-598-156
                                                                    CURRENT FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Publication No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-227-693-156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 156,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                  TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
```

ö

.; 0

```
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Watanabe, Colin K.
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
TITLE OF INVENTION: SCRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME CURRENT APPLICATION NUMBER: US/10/063,567
CURRENT APPLICATION NUMBER: 2002-05-02
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 170
SEQ ID NO 156
LENGTH: 177
                                                                                                                                                                                                                                                                                                                                                                                                                                              79 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 138
                                                                                                                                                                                                                                                                                                                                                                                                                    63 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               19 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          63 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19 QVVAELAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 78
                                                                                                                                                                                                                                                                                                                            3 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE
                                                                                                                                                                                                                                          Length 177;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 177;
                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Indels
                                                                                                                                                                                                                                     Score 898; DB 9;
Pred. No. 3.8e-77;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              123 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      139 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 898; DB 9;
Pred. No. 3.8e-77;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                         98.7%; Sco. 100.0%; Pred. No. 5... 0, Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        98.7%; Sco. 100.0%; Pred. No. 5... 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; Sequence 156, Application US/10063567; Publication No. US20030069394A1; GENERAL INFORMATION:
         PRIOR FILING DATE: 2000-11-10
PRIOR APPLICATION NUMBER: US 6
PRIOR FILING DATE: 2000-01-20
NUMBER OF SEQ ID NOS: 24
SEQ ID NO 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Eaton, Dan L.
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary E.
                                                                                                                                                                                                                                   Query Match
Best Local Similarity 100.
Matches 159; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 98.7
Best Local Similarity 100.
Matches 159; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Goddard, Audrey
                                                                                                                                                ; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-213-181-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-063-567-156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-063-567-156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 15
US-10-063-538-156
                                                                                                                        LENGTH: 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              139
                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                     qq
                                                                                                                                                                                                                                                                                                                                                                                                                      ģ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19 QVVAFLAMVMGTHTYSHWPSCCPSKGODTSEELLRWSTVPVPPLEPARPNRHPESCRASE 78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: Compositions and Methods for the Treatment of TITLE OF INVENTION: Related Diseases
FILE REFERENCE: 93133R1C7
CURRENT APPLICATION NUMBER: US/10/213,181
CURRENT FILING DATE: 2002-08-05
PRIOR PELICATION NUMBER: US 10/052,594
PRIOR FILING DATE: 2002-01-18
PRIOR APPLICATION NUMBER: PCT/US00/30873
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 177;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 898; DB 9; I
Pred. No. 3.8e-77;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   123 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             98.7%; Sco...
100.0%; Pred. No. ...
0; Mismatches
                                 PRIOR APPLICATION NUMBER: PCT/US99/10733
PRIOR FILING DATE: 1999-05-14
PRIOR PILING DATE: 1999-05-14
PRIOR PRILING DATE: 1999-05-14
PRIOR PRILING DATE: 1999-05-18
PRIOR PILING DATE: 2000-02-18
PRIOR PILING DATE: 2000-03-01
PRIOR PILING DATE: 2000-03-01
PRIOR PILING DATE: 2000-03-01
PRIOR PILING DATE: 2000-03-02
PRIOR PILING DATE: 2000-03-03
PRIOR PILING DATE: 2000-03-04
PRIOR PILING DATE: 2000-11-0
PRIOR PILING DATE: 2000-11-0
PRIOR PILING DATE: 2000-12-01
PRIOR PILING DATE: 2000-12-01
PRIOR PILING DATE: 2000-12-00
PRIOR PILING DATE: 2001-02-28
NUMBER OF SEQ ID NOS: 39
APPLICATION NUMBER: PCT/US99/05028
FILING DATE: 1999-03-08
APPLICATION NUMBER: PCT/US99/10733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; Sequence 18, Application US/10213181
; Publication No. US20030054484A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Fong, Sherman
APPLICANT: Goddard, Audrey
APPLICANT: Goddard, Paul
APPLICANT: Gorimaldi, Christopher
APPLICANT: Grimaldi, Christopher
APPLICANT: Hillan, Kenneth
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin
APPLICANT: Watanabe, Colin
APPLICANT: Zhang, Zemin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity 100.
Matches 159; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Homo Sapien
US-09-908-827-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 13
US-10-213-181-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ογ
```

ö

Gaps

```
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME FILE REFERENCE: P3230HZC1 CURRENT APPLICATION NUMBER: US/10/063,538 CURRENT FILING DATE: 2002-05-02 Prior Application removed - See File Wrapper or Palm NUMBER OF SEQ ID NOS: 170 ENGTH: 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             63 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 98.7%; Score 898; bB 9; Length 177; Best Local Similarity 100.0%; Pred. No. 3.8e-77; Matches 159; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          139 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              123 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Search completed: May 12, 2003, 02:02:13 Job time : 31 secs
Sequence 156, Application US/10063538 Publication No. US20030073208Al GENERAL INFORMATION:
                                                                                                                                                                                           Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                    Eaton, Dan L.
Filvaroff, Ellen
Gerritsen, Mary E.
                                                                                                                                                                                                                                            Gurney, Austin L.
Watanabe, Colin K
                                                                                                                                                                                                                                                                                                Wood, William I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT; ORGANISM: Homo Sapien US-10-063-538-156
                                                                                                                                                                                                                                            APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
```

```
AC115371 Rattus no
AF458061 Mus muscu
AX427978 Sequence
AX30306 Sequence
AX376380 Sequence
AF152099 Homo sapi
AF14410 Homo sapi
AX233949 Sequence
AF479775 Homo sapi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Rattus no
Rattus no
Mus muscu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AF458060 Mus muscu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AY034088 Mus muscu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AF250308 Mus muscu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AI.132855 Human chr
ALO49829 Human chr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Rattus no
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapi
Homo sapi
                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AF305200 Homo sapi
                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapi
                                                                                                                                                                                                                                                                                                                                                                                   AX299773 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AX365244 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Seguence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AX180768 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Seguence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AX365250 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sedneuce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ното зар
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                          Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                  Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AX047648
AX180764
AX464312
AX464312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AC116673
A:119293
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AX362327 AF332389 I
                                                                                                                                                                                                                                                                                                                                                                                                                                         AF458359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AF218727
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AF110385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AX180770
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AF184969
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AX358834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AX29977
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AF2123.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ALIGNMENTS
                                                                                                                                                                                                                                                                                                SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                     AX299773
                                                                                                                                                                                                                                                                                                                                                                                                                       AX365242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4X358834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AX427
                                                                                                                                                                                             em_htgo_other:*
                                     htg_other:
                                                                                                                                                           em_htgo_hum:*
                                                                                                                                                                           em_htgo_mus:
                                                       em_htg_mus:
                                                                                          htg_rod:'
                                                                                                                          em_htg_vrt:*
     em_htg_hum:
                                                                        em_htg_pln:
                                                                                                          em_htg_mam
                                                                                                                                                                                                                                                                                                                                                  DB
                                                                                                                                                                                                                                                                                                                                Query
Match Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   34.6 170032
30.4 160950
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     160950
                                                                                                                                                                                                                                                                                                                                                 Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               495
495
430.5
430.5
314.5
                                                                                                                                                                                                                                                                                                                                Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT
                                                                                                                                                                                                                                                                                                                                                  Š.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Command line parameters:
-MODEL-frame+_p2n.model -DEV-x1h
-WODEL-frame+_p2n.model -DEV-x1h
-O=/cgn2_1/USPTO_spool/US10037591/runat_06052003_123154_22277/app_query.fasta_1.327
-O=/cgn2_1/USPTO_spool/US1037591/runat_06052003_123154_22277/app_query.fasta_1.327
-DB=GenEmbl -QFMT-fastap -SUFFIX-p2n.rge -MINMATCH-0.1 -LOOPEXT-0
-UNITS-bits -START-1 -EMD--1 -MATRIX-blosum62 -TRANS-human40.cdi -LISP-45
-UNITS-bits -START-1 -EMD--1 -MATRIX-blosum62 -TRANS-human40.cdi -LISP-45
-DOCALIGN=200 -THR_SCORE-pct -THR_MAX=100 -THR_MIN-0 -ALIGN-15 -MODE-LOCAL
-OUTFMT-pct - NORM-ext -HRARSIZE-500 -MINIEN-0 -MAXLEN-200000000
-USER-US10037591_GCGN_1 _1_1687_@runat_06052003_123154_22277 -NCPU-6 -ICPU-3
-NO_XLEXY -NO_MMAP -LARGEBUERY -NGS_SCORES-0 -WAIT -LONGICG -DEV_TIMEOUT-120
-WARN_TIMEOUT-30 -THREADS-1 -XGAPOP-10 -XGAPEXT-0.5 -FGAPOP-6 -FGAPEXT-7
-YGAPOP-10 -YGAPEXT-0.5 -DELOP-6 -DELDEXT-7
                                                                                                                   (without alignments)
2659.223 Million cell updates/sec
                                                                                                                                                                  US-10-037-591A-2
910
1 MYQVVAFLAMVMGTHTYSHW......ERRLYRVSLACVCVRPRVMG
                                                                                               May 12, 2003, 02:00:49 ; Search time 1762 Seconds
                                                                                                                                                                                                                                                                                                                                                                                 4109280
GenCore version 5.1.4_p5_4578 Copyright (c) 1993 - 2003 Compugen Ltd.
                                                             nucleic search, using frame_plus_p2n model
                                                                                                                                                                                                                                                                                                                                                                          Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                             2054640 segs, 14551402878 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                      Xgapop 10.0 , Xgapext
Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
Delop 6.0 , Delext
                                                                                                                                                                                                                                                                                                                                                                                                              Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  gb_vi:*
em_ba:*
em_fun:*
em_hum:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gb_ba:*
gb_htg:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              *: Ks_d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gb_pat:*
gb_ph:*
gb_pl:*
gb_pr:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                b_sts:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   em_mu:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gb_in:*
gb_om:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            em_pl:*
em_ro:*
em_sts:'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gb_ro:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ap_un:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        em_in:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         em_ov:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             em_pat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         em_or:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GenEmbl: *
                                                                                                                                                                                                                                        BLOSUM62
                                                                                                                                                                    Title:
Perfect score:
                                                                                                                                                                                                                                        Scoring table:
                                                               OM protein -
                                                                                                                                                                                                        Sequence:
                                                                                                                                                                                                                                                                                                                                             Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Database
                                                                                                 Run on:
```

```
173
                                                                                                                 AX253225.1 GI:15986362
                                                                                                                                                                                                                                                                                                                                                                                                                              5.62e-55
910.00
100.00%
100.00%
                                                                                                                                                                                                                                                                                                                                                                                        O
                                                                                                                                                                                                                                                                                                                                                                                      204
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                        144
                                                                                                                                      human
                                                                                                                                                                                                                                                                                                                                                                                                                       Scores:
                    161 Gly 161
                                        501
                                 _ပ္ပ
_ပ္ပ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match:
                                                                                                                                                                                                                                                           source
                                                                                                                                                                                                                                                                                                                                                                                                                     Alignment S
Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                 LOCUS
                                                                                                                                                ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            219
                                        499
                                                                                                      ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                REFERENCE
AUTHORS
                                                                                                                                                                                                               TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        459
                                                             RESULT 2
AX253225
                                                                                                                                                                                                                                                                                         CDS
                                                                                                                                                                                                                                                FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                            Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ğ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                    ò
                                                                                                                                                                                                                          /protein_id="cad12718.1"
/db_xref="G1:17129285"
/translation="MYQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP
PLEBARPNRHPESCRASEDGPLNSRALSPWRYELDRDLNRLPQDLYHARCLCPHCVSL
GTGSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVM
G
           26-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              318
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         378
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LeuGluArgArgLeuTyrArgValSerLeuAlaCysValCysValArgProArgValMet 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SerLeuGlnThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsn 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         41 ValProValProProLeuGluProAlaArgProAsnArgHisProGluSerCysArgAla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 SerGluAspGlyProLeuAsnSerArgAlaIleSerProTrpArgTyrGluLeuAspArg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        81 AspLeuAsnArgLeuProGlnAspLeuTyrHisAlaArgCysLeuCysProHisCysVal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121 GlnThrValPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                              MetTyrGlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21 ProSerCysCysProSerLysGlyGlnAspThrSerGluGluLeuLeuArgTrpSerThr
                                                                                                                                                         1. 504
/organism="unidentified"
/db_xreef="taxon:32644"
/db_xreef="taxon:32644"
/db_xreef="primate IL-174 polynucleotide sequence"
19. 504
/note="unnamed protein product"
           linear
                                                                                                                                                                                                                                                                                                                                                                  504
161
0
0
0
                                                                                                                                                                                                                                                                                                                                                                 Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                        Hurst, S.D., Zurawski, S.M. and Rennick, D.M.
           DNA
                                                                                                                  Cytokine uses; compositions; methods Patent: WO 0179288-A 1 25-OCT-2001; SCHERING CORPORATION (US)
                                                                                                                                                                                                                                                                                                                          93
        AX299773 504 bp
Sequence 1 from Patent WO0179288.
AX299773
                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                         (1-504)
                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                           δ
                                                                                                                                                                                                                                                                                                             /product="unnamed"
165 c 148 g
                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-037-591A-2 (1-161) x AX299773
                                        AX299773.1 GI:17129294
                                                                                                                                                                                                                                                                                                                                                                  4.45e-55
910.00
100.00%
100.00%
                                                            unidentified.
unidentified
unclassified.
                                                                                                                                                                                                                                                                                                                                                                                      Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                         Alignment Scores:
Pred. No.:
                                                                                                                                                                                                                                                                                                      mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                             Query Match:
                            ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                              source
           LOCUS
                                                                                                                                                                                                                                                                                                                          BASE COUNT
                                                                                            REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          141
4X299773
                                                                                                                                                FEATURES
                                                                                                                                                                                                                                                                                                                                    ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ç
```

```
/translation="myQVVAFLAMVMGTHTVSHWPSCCPSKGQDTSEELLRWSTVPVP
PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSL
GTGSHMDPRGNSELLYHNGTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVM
G"
                                                                                                     PAT 05-0CT-2001
                                                                                                                                                                                                  Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   518
40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              80
                                                                                                                                                                                    Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleos
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
Mamyalas; Lotheria; Primates; Catarrhini; Hominidae; Homo.
Jing,S., Medlock,E., Yeh,R., Silbiger,S.M., Elliot,S.S. and
Nguyen,H.Q.
Il-17 receptor like molecules and uses thereof
Patent: WO 0168705-A 22 20-SEP-2001;
Amgen Inc. (US)
Amgen Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          644
161
0
0
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                 159. .644
/note="unnamed protein product"
                                                                                                         DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length:
                                                                                                  AX253225 644 bp
Sequence 22 from Patent WO0168705.
AX253225
                                                                                                                                                                                                                                                                                                                         1. .644
/organism="Homo sapiens"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                          /codon_start=1
/protein_id="CAC93840.1"
/db_xref="G1:15986363"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-037-591A-2 (1-161) x AX253225 (1-644)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        б
```

음

주. 전

ŏ g

```
PRI 15-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /protein_id="AAL57622.1"
/db_xref="G01:18034676"
/translation="MYQVVAELAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP
PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        QTGSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Hurst.S.D., Muchamuel, T., Gorman, D.M., Gilbert, J.M., Clifford, T., Kwan, S., Menon, S., Seymour, B., Jackson, C., Kung, T., Brieland, J., Zurawski, S.M., Chapman, R., Zurawski, G. and Coffman, R.L. In Wew IL-17 family members promote Thi or Th2 responses in the lung: In vivo function of the novel cytokine IL-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Fort, M.M., Cheung, J., Yen, D., Li, J., Zurawski, S.M., Lo, S., Menon, S., Clifford, T., Hunte, B., Lesley, R., Muchamuel, T., Hurst, S.D., Zurawski, G., Leach, M.W., Gorman, D.M. and Rennick, D.M. IL-25 induces IL-4, IL-5, and IL-13 and Th2-associated pathologies
                                    120
                                                                518
                                                                                                              399 GACTTGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTC 458
                                                                                                                                                        141 LeuGluArgArgLeuTyrArgValSerLeuAlaCysValCysValArgProArgValMet 160
                                                                                                                                                                          459 AGCCTACAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAAC
                                                                                              121 GlnThrValPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCys
                                                                                                                                                                                                                                                                                                                                                                                                                                    Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3 (bases I to 486)
Gilbert, J.M. and Gorman, D.M.
Bilbert, J.M. and Gorman, D.M.
Submitsed (12-DEC-2001) Genomics, DNAX Research Inc.,
California Ave., Palo Alto, CA 94304, USA
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                    Chordata; Craniata; Vertebrata;
Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                              linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 486
160
0
                                                                                                                                                                                                                                                                                                   486 bp mRNA AR458059 GI:18034675
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative:
Mismatches: .
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Immunity 15 (6), 985-995 (2001) 21629216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /note="cytokine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /product="IL25"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1.12e-54
904.00
100.008
100.008
99.348
                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    (bases 1 to 486)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (bases 1 to 486)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      162 c
                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Percent Similarity:
Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11754819
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              in vivo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      94
                                                                                                                                                                                                                                                641
                                                                                                                                                                                                                    Gly 161
                                                                                                                                                                                                                                                                                                                         DEFINITION
ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        source
                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM
                                    101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pred. No.:
                                                                                                                                                                                                                      161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JOURNAL
REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PUBMED
REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Alignment
                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE
                                                                                                                                                                                                                                                                             RESULT 4
AF458059
                                                                                                                                                                                                                                                                                                                                                                      KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score:
                                                                                                                                                                                                                                                                                                            LOCUS
                                                              q
                                                                                                                                                                                     g
                                                                                                                                                                                                                                                q
                                                                                                                                                                                                                    δ
                                                                                              ò
                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /procein_id="Cad23795.1"
/db_xref="G1:18696996"
/translation="MYQVAPLAMVMCTHTVSHWPSCCPSKGQDTSEELLRWSTVPVP
PLEPARPNRHPESCRASEDGFLNSRAISPMRYELDRDLWRLPQDLYHARCLCPHCVSL
QTGSHWDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVM
                                                                                                                                                                                                                  PAT 15-FEB-2002
                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
                                                                                                                                                                                                                                                                                                                                                                Medlock, E., Yeh, R., Silbiger, S.M., Elliot, G.S., Nguyen, H.Q. and
                                                          578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AspLeuAsnArgLeuProGlnAspLeuTyrHisAlaArgCysLeuCysProHisCysVal 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SerGluAspGlyProLeuAsnSerArgAlalleSerProTrpArgTyrGluLeuAspArg 80
121 GloThrValPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCys
               21 ProSerCysCysProSerLysGlyGlnAspThrSerGluGluLeuLeuArgTrpSerThr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MetTyrGlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ValProValProProLeuGluProAlaArgProAsnArgHisProGluSerCysArgAla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         644
161
0
0
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length:
Matches:
Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        159. .644
/note="unnamed protein product"
                                                                                                                                                                                                                  DNA
                                                                                                                                                                                                                                                                                                                                                                                 Jing,S.
Il-17 molecules and uses thereof
Patent: WO 0208285-A 1 31-JAN-2002,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism="Homo sapiens"
/db_xref="taxon:9606"
                                                                                                                                                                                                            Sequence 1 from Patent WO0208285.
AX365242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-037-591A-2 (1-161) x AX365242 (1-644)
                                                                                                                                                                                                                                                                                                                                                                                                                              c. (US)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             173
                                                                                                                                                                                                                                                          AX365242.1 GI:18696995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5.62e-55
910.00
100.00%
100.00%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ပ
                                                                                                                                                                                                                                                                                                                                                                                                                                                          1. .644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             204
                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                               Amgen, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Percent Similarity:
Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               æ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             144
                                                                                                                                                                                                                                                                                           human.
                                                                                                                      Gly 161
                                                                                                                                                  639 GGC 641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                               source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BASE COUNT
ORIGIN
                                                                                                                      161
                                                                                                                                                                                                                            DEFINITION
                                                                                                                                                                                                                                          ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                       ORGANISM
                                                                                                                                                                                                                                                                                                                                                    REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    219
                                                                                                                                                                                                                                                                                                                                                                                                                 JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          81
                                                                                                                                                                                RESULT 3
AX365242
                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CDS
                                                                                                                                                                                                                                                                                                                                                                                                 TITLE
```

Score:

g δ В õ g ŏ g

à

42

DB:

셤

ò

41 121

g à g ð g

Q

181

g

ö

61

121 361 141 421

ò

g à 셤

8

õ

AX092424

LOCUS

RESULT

AUTHORS REFERENCE

JOURNAL

TITLE

FEATURES

Score:

ö

```
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                       GlnThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThr 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Fong, S., Goddard, A., Godowski, P.J., Grimaldi, C.J., Gurney, A.I. Hillan, K.J., Tumas, D., Watanabe, C.K., Wood, W.I. and Zhang, Z. Compositions and methods for the treatment of immune related
                                                                                                                                                                                                                                                                                                    GlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrpProSer
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                        DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO 0140465-A 17 07-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  303
                                                                                                                                                                                                                                                                                                                                                                  1320 bp
Sequence 17 from Patent W00140465.
AX164145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /organism="Homo sapiens"
/db_xref="taxon:9606"
353 c 384 g 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (1-1320)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           , Inc. (US)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  384 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-037-591A-2 (1-161) x AX164145
                                                                                                                                                                                                                                                                                                                                                                                                        AX164145.1 GI:14545087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (bases 1 to 1320)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7.6e-54
898.00
100.00%
100.00%
                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Patent: WO
Genentech,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    280
                                                                                                                                                                                                                                                                                                                                                                                                                                human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                        VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     source
                                                                                                                                                                                                                                                                                                                                                                                    DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   m
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE
AUTHORS
                                                                                                                                                                                           553
                                                                                                                                                                                                                                                            123
             313
                                    23
                                                                                                    433
                                                                                                                           63
                                                                                                                                                193
                                                                                                                                                                      83
                                                                                                                                                                                                                103
                                                                                                                                                                                                                                                                                  673
                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JOURNAL
                                                                                                                                                                                                                                                                                                                                                  RESULT 6
AX164145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score:
                                                                                                                                                                                                                                                                                                                                                                           LOCUS
                                                                                                                                                                                           g
                                                                                                                                                                                                                                     QQ
                                                                                                                                                                                                                                                                                 q
                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .
G
                                                                                                    a
                                                                                                                                               g
                                                                                                                                                                                                                                                            δ
                                                                                                                                                                                                                                                                                                       ò
                                    ò
                                                       Dp
                                                                             ò
                                                                                                                           ò
                                                                                                                                                                      ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                21-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Secreted and transmembrane polypeptides and nucleic acids encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Euteleostomi;
                                                                                                                                                                                                                           LeuGluArgArgLeuTyrArgValSerLeuAlaCysValCysValArgProArgValMet 160
                                                                                                                                                                                                                                                                                                                                 AGTGAAGATGGACCCCTCAACAGCAGGCCCATCCCCCCTGGAGATATGAGTTGGACAGA 240
                                                                                                                                                                                                                                                                                                                    GlnThrValPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCys 140
                                                                                          40
                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22
                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eaton,D.L., Filvaroff,E., Gerritsen,M.E., Goddard,A.,
Godowski,P.J., Grimaldi,C.J., Gurney,A.L., Watanabe,C.K. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrpProSer
                                                                                         ValProValProProLeuGluProAlaArgProAsnArgHisProGluSerCysArgAla
                                                                                                                                                                                SerGluAspGlyProLeuAsnSerArgAlaIleSerProTrpArgTyrGluLeuAspArg
                                                                                                                                                                                                                                                                                                                                                                            MetTyrGlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrp
                                                                                                                                                                                                                                                                                                                                                                                                                                PAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Vertebrata;
                                                                                                                                                                                                                                                                                                                                                                                                                                  linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1320
159
0
0
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota, Metazoa, Chordata, Craniata,
Mammalia, Eutheria, Primates, Catarrhini
1 (bases 1 to 1320)
                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO 0116318-A 155 08-MAR-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                AX092424 1320 bp sequence 155 from Patent W00116318. AX092424 1 GI:13444526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /organism="Homo sapiens"
/db_xref="taxon:9606"
353 c 384 g 30:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (1-1320)
      Gaps:
                          US-10-037-591A-2 (1-161) x AF458059 (1-486)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                , Inc. (US)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-037-591A-2 (1-161) x AX092424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7.6e-54
898.00
100.00%
100.00%
98.68%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Genentech,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ø
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Wood, W. I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Patent:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         source
                                                                                                                                                                                                                                                                                                                                                                                                                                            DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACCESSION
VERSION
```

PAT 22-JUN-2001

linear

432

42

1320 159 0 0 0 0

672

552 102

492

82

Oy 63 AspOlyProLeuAsnSerArgA	Oy 123 ValPheTyrArgArgProCysH 		ACCESSION AF305200 VERSION AF305200.1 GI:11878 KEYWORDS Homo sapiens. ORGANISM Homo sapiens Eukaryota, Metazoa; Mammalia, Euthoria.		D 11058597 E 2 (bases S Lee,J., H Goddard,A Direct Submitted South San	realukes Location/Qu source 1 1335 /organisme", /db_xref="t	/chromosome gene 11335 /gene="IL17] CDS 259792 /gene="IL17] /note="IL17] /note="IL17]	/protein_id-	c c	t,
:. ·				e "" .						
Oy 43 ValProProLeuGluProAlaArgProAsnArgHisProGluSerCysArgAlaSerGlu 62 111111111111111111111111111111111111	Oy 103 GlnThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThr 122	Oy 143 ArgArgLeuTyrargValSerLeuAlaCysValCysValArgProArgValMetGly 161	AX180768 LOCUS AX180768 LOCUS AX180768 TOCUS DEFINITION Sequence 5 from Patent WO0146420. VERSION AX180768 AX180768 AX180768.1 GI:15132618 KEYWORDS	SOURCE human. ORGANISM Homo sapiens ORGANISM Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Bukaryota; Metazoa; Chordata; Catarrhini; Hominidae; Homo. Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. I (bases I to 1320) AUTHORS Chen,J.; Filvaroff,E., Fong,S., Goddard,A., Godowski,P.J., Grimaldi,C.J., Gurney,A.L., Li,H., Hillan,K.J., Tumas,D., van Lookeren,M., Vandlen,R.L., Watanabe,C.K., Williams,P.M., Wood,W.I.	TITLE 11-17 and 11-17 homologous polypeptides and therapeutic uses thereof 11-17 and 11-17 homologous polypeptides and therapeutic uses JOURNAL Patent: WO 1146420-A 5 28-JUN-2001; Genentech, Inc. (US) FEATURES Location/Qualifiers Source 1. 1320 Arraniam="Homo sanians"	n n	Alignment Scores: 7.6e-54 Length: 1320 Pred. No.: 898.00 Matches: 159 Score: 100.00\$ Conservative: 0 Best Local Similarity: 100.00\$ Mismatches: 0 Query Match: 6 Gaps: 0	US-10-037-591A-2 (1-161) x AX180768 (1-1320)	Oy 3 GlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrpProSer 22	Oy 23 CysCysProSerLysGlyGlnAspThrSerGluGluLeuLeuArgTrpSerThrValPro 42

```
,,
Maruoka,M., Corpuz,R.T., Baldwin,D., Foster,J.S.,
ira,D.G., Vandlen,R.L., Wood,W.I. and Gurney,A.L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1nterleukin 17E"

dd-"AA640848.1"

dd-"AA540848.1"

co::11878210"

SGTVPREPRIGEDSSLISLFLQVVAFLAMVMCTHTYSHWPSCCPSKG

SGTVPVPFLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLP
PHCVSLOTGSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGTCLERR

384 9 303 t
                                                                                                                                                                                                                                                                                                                      1335 bp mRNA linear PRI 09-JAN-2001 eukin 17E (IL17E) mRNA, complete cds.
                                                                                                                                                                                                                                                                                                                                                                                                                          Chordata, Craniata, Vertebrata, Euteleostomi,
Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1000) Molecular Biology, Genentech, 1 DNA Way, CA 94080, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     daruoka,M., Corpuz,R.T., Baldwin,D.T.,
cd,A.D., Yansura,D.G., Vandlen,R.L., Wood,W.I.
inflammatory ligand for the IL-17 receptor
                                                                                                                                                                                                                                 1335
159
0
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length:
Matches:
Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (2), 1660-1664 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Homo sapiens"
"taxon:9606"
me="14"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           7E"
17E; cytokine"
                                                                                                                                                                                                                                                                                                                                                                  8209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17E"
```

						. •		
Query Match DB:	ch:	98.68%	Indels: Gaps:				Score: Percent Si	e: ent Similarity:
US-10-037	-591A-2 (1-161)	161) x AF305200	(1-1335)				ir it	Similarit h:
Qy 313		laPheLeuAlaMetVa 	AlMetGlyThri	HisThrTy CACACCTA	GlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrpproSer 22 		DB: US-10-037-591A-2	591A-2 (1-
Qy 23 Db 373		srLysGlyGlnAspT} 	nrSerGluGlu] : :CTCTGAGGAGG	LeuLeuA CTGCTGAC		•	Oy 1	1 MetTyrGlnV ATGTACCAGG
Qy 43 Db 433		i euGluProAlaArgPr 	COASDArgHis 	ProGluSe CCAGAGTO	ValProProLeuGluProAlaArgProAsnArgHisProGluSerCysArgAlaSerGlu 62 		Oy 18 Db 61	ATCCAGGAGG
Qy 63 Db 493		uasnSerargalail 	LeSerProTrp2 	ArgTyrG] AGATATG2	AspGlyProLeuAsnSerArgAlaIleSerProTrpArgTyrGluLeuAspArgAspLeu 82 		Qy 33	33 GluGluLeuL 21 GAGGAGTGGC
Qy 83 Db 553		OGInASPLeuTyrHi 	SAlaArgCysl	LeuCysP1 	AsnArgLeuProGlnAspLeuTyrHisAlaArgCysLeuCysProHisCysValSerLeu 102 		Qy 53	ArghisProG
Oy 103 Db 613		rHisMetAspProAr 	gGlyAsnSer(GGGCAACTCGG	3luLeuLe 	GinThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThr 122 		Qy 73	ProfrpArgT CCTTGGAGCT
Qy 123 Db 673		gArgProCysHisGl 	.yGluLysGly1 CGAGAAGGGC	ThrHisLy 				ArgCysLeuC
Oy 143 Db 733		ArgArgLeuTyrargValSerLeuAlacysValCysValArgProArgValMetGly 	aCysValCysV 	/alArgPr 	OArgValMetGly 161 CCGTGTGATGGGC 789		Oy 113 Db 361	AsnSerGluL AACTCCGTCC
RESULT 9 AX299775 LOCUS DEFINITION ACCESSION VERSION KEYWORDS	AX299775 N Sequence 3 AX299775	985 bp 3 from Patent WO0179288 1 GI:17129296	985 bp 00179288.	DNA	linear PAT 26-NOV-2001	000	Qy 133 1 Qy 153 W Qy 153 W	LysGlyThrH ::: GAAGGTACCC ValCysValA:
SOURCE	unidentified. unidentified	ied. ied					RESULT 10 AF458060	
REFERENCE AUTHORS TITLE JOURNAL		Uncreasing. Hurst, S.D., Zurawski, S.M. and Rennicl Cytokine uses; compositions; methods Patent: WO 0179288-X 3 25-OCT-2001; SCHERING CORPORATION (US)	. and Rennick,D.M. Ons; methods 5-OCT-2001;	lck, D.M. is			LOCUS DEFINITION ACCESSION VERSION KEYWORDS	AF458060 Mus musco AF458060 AF458060
FEATURES SOURCE		Location/Qualifiers 1985	iers				ORGANISM	Mus muscu Eukaryota
CDS		/organism="unidentified" /db_xref="taxon:32644" /note="murine IL-174 polynucleotide . 510	entified" :32644" L-174 polyn	nucleoti	de sequence"		REFERENCE AUTHORS	Mammalia 1 (base: Fort, M.M
		/note="unnamed protein product /codon_start=1 /protein id="CAD12719.1"	protein pro D12719.1"	oduct"			TITLE	Menon, S., Hurst, S.I IL-25 inc
		/db_xref="GI:17129297" /translation="MYQAVAFLAM" KWSSASVSPPEPLSHTHHAESCRA, LCPHCVBLQTGSHMDPLGNSVPLY	129297 TYPHAESCRASK PLGNSVPLYHN	GTHTVSL OGPLNSR QTVFYRR	/db_xref="GI:11129297" /translation="MYQAVAFLAMIVGTHTVSLRIQEGCSHLPSCCPSKEQEPPEEWL KWSSASVSPPEPLSHTHHAESCRASKDGPLNSRAISPWSYELDRDLNRVPQDLYHARC LOPHCVSLOJTGSHMDPLGNSVPLYHNQTVFYRRPCHGEEGTHRRYCLERRLYRVSLAC	SWL ARC LAC	JOURNAL MEDLINE PUBMED REFERENCE	III VIVO Immunity 21629216 11754819 2 (bases
mat_p BASE COUNT ORIGIN	eptide 199 a	/9507 /product="unnamed 296 c 268	ed" 8 g 222	ι.			AUTHOKS TITLE	Hurst, S.I Kwan, S., Zurawski, New IL-17
Alignment Scores Pred. No.:	Scores:	7.36e-41	Length:				JOURNAL REFERENCE AUTHORS	Unpublish 3 (bases

```
ROD 15-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sculus.
sculus.
sculus detacoa; Chordata; Craniata; Vertebrata; Euteleostomi;
sta; Metacoa; Chordata; Sciurognathi; Muridae; Murinae; Mus.
ses 1 to 985)
M. Cheung, J., Yen, D., Li, J., Zurawski, S.M., Lo, S.,
S., Chlifford, T., Hunte, B., Lesley, R., Muchamuel, T.,
S.D., Zurawski, G., Leach, M.W., Gorman, D.M. and Rennick, D.M.
induces IL-4, IL-5, and IL-13 and Th2-associated pathologies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .D., Muchamuel,T., Gorman,D.M., Gilbert,J.M., Clifford,T., Menon,S., Seymour,B., Jackson,C., Kung,T., Brieland,J., i.S.M., Chapman,R., Zurawski,G. and Coffman,R.L.
17 family members promote Thl or Th2 responses in the lung: function of the novel cytokine IL-25
                                                                                                                                                                                                                                                                                                     240
                                                                                                                                                             112
                                                                                                                                                                                                                                                                                                                                                                                                                                         180
                                                                                                                                                                                                                                                                                                                                                          300
                                                                                                                                                                                                                                                                                                                                                                                                              360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            52
                                                                                                                                                                                                                                                                            72
                                                                                                                                                                                                                                                                                                                                  85
                                                                                                                                     9
                                                                                                                                                                                                                                                                          LeuArgTrpSerThrValProValProProLeuGluProAlaArgProAsn
                                                                                                                                                                                                                                    ||||::|||||||::
|CTGAAGTGGAGCTCTGCATCTGTGTCCCCCCCAGAGCCTCTGAGCCACACC
                                                                                                          ValValAlaPheLeuAlaMetValMetGlyThrHisThrTyr----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   linear
 129
9
22
8
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0 985 bp mRNA culus IL25 mRNA, complete cds.
                                                                               (1-985)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          y 15 (6), 985-995 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Unpublished
3 (bases 1 to 985)
Gilbert,J.M. and Gorman,D.M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -161) x AX299775
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.1 GI:18034677
709.00
82.14%
76.79%
77.91%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   es 1 to 985)
                             ty:
```

```
Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Alignment Scores:
Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match:
                                                                                                                                                                                                                                                                    source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BASE COUNT
ORIGIN
                                                    ORGANISM
                                                                                                                 REFERENCE
AUTHORS
                                                                                                                                                                                                  JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18
          KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              481
                                                                                                                                                                                                                                                                                                                             CDS
                                                                                                                                                                                                                                            FEATURES
                                                                                                                                                                               TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   QQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                     /protein_id="AAL57623.1"
/brotein_id="AAL57623.1"
/tb.xref="G1:18034678"
/tb.xref="G1:180346788"
/tb.xref="G1:18034678"
/tb.xref="G1:1803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PAT 15-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61 ATCCAGGAGGCTGCAGTCACTTGCCCAGCTGCCCCAGCAAAAACCCCCG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181 CACCACGAGAATCCTGCAGGGCCAGCAAGGATGGCCCCCTCAACAACAGCAGGCCATCTCT 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ArgCysLeuCysProHisCysValSerLeuGlnThrGlySerHisMetAspProArgGly 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AsnSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArgArgProCysHisGlyGlu 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LysGlyThrHisLysGlyTyrCysLeuGluArgArgLeuTyrArgValSerLeuAlaCys 152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               53 ArgHisProGluSerCysArgAlaSerGluAspGlyProLeuAsnSerArgAlaIleSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ------SerHisTrpProSerCysCysProSerLysGlyGlnAspThrSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GluGluLeuLeuArgTrpSerThrValProValProProLeuGluProAlaArgProAsn
                              901
Direct Submission
Submitted (12-DEC-2001) Genomics, DNAX Research Inc.,
California Ave., Palo Alto, CA 94304, USA
Location/Qualifiers
1. .985
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MetTyrGlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyr-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA
                                                                                                                                                                                                                                                                                                                                                                                      222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 3 from Patent W00208285.
AX365244
AX365244.1 GI:18696997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-037-591A-2 (1-161) x AF458060 (1-985)
                                                                                                                                 /strain="C57BL/6"
/db_xref="taxon:10090'
                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ValCysValArgProArgValMet 160
                                                                                                                                                                                                                                                                                                                                                                                      268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1. .510
/note="cytokine"
                                                                                                                                                                                                         /codon_start=1
/product="IL25"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    7.36e-41
709.00
                                                                                                                                                                                                                                                                                                                                                           VCVRPRVMA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              82.148
76.798
77.918
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                              Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match:
DB:
                                                                                       source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DEFINITION
ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                               BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ..
Q
    TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 11
AX365244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        481
                                                                                                                                                                        CDS
                                                                 FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       _{
m Pred}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
```

```
/protein_id="CAD23796.1"
/protein_id="CAD23796.1"
/db_xref="G1:18696998"
/db_xref="G1:18696998"
/KWSASYSPPEPLSHTHARSCFRAKUGPLNSRAISPWSYELDRDINRVPQDLYHARG
LCPHCVSLQTGSHMDPLGNSVPLYHNQTVFYRRPCHGEEGTHRRYCLERRLYRVSLAC
house mouse.
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrava; Eutereuse......
Eukaryota; Metazoa; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           113 AsnSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArgArgProCysHisGlyGlu 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 MetTyrGlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyr----- 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ------SerH1sTrpProSerCysCysProSerLysGlyGlnAspThrSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61 ATCCAGGAGGCTGCAGTCACTTGCCCAGCTGCTGCCCCCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           33 GluGluLeuLeuArgTrpSerThrValProValProProLeuGluProAlaArgProAsn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             93 ArgCysLeuCysProHisCysValSerLeuGlnThrGlySerHisMetAspProArgGly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               53 ArgHisProGluSerCysArgAlaSerGluAspGlyProLeuAsnSerArgAlaIleSer
                                                                                                                                                                                                                                                                                                                                                                                                                  1013
129
9 .
22 .
8
                                                                                                                                                                                                                                                                                                                                                                                                                 Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                    1. .510
/note="unnamed protein product"
                                                                                                 Jing, S.
Il-17 molecules and uses thereof
Patent: WO 0208285-A 3 31-JAN-2002;
Amgen, Inc. (US)
                                                                                                                                                                                                                                                                                                                                                        221
                                                                                                                                                                                        /organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-037-591A-2 (1-161) x AX365244 (1-1013)
                                                                                                                                                                                                    /db_xref-"taxon:10090'
                                                                                                                                                          Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                        268 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   153 ValCysValArgProArgValMet 160
                                                                                                                                                                                                                                                   /codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTGTGTGCGGCCCCGGGTCATG
                                                                                                                                                                                                                                                                                                                                                                                                                 7.56e-41
709.00
82.14%
76.79%
                                                                                                                                                                                                                                                                                                                                          VCVRPRVMA"
                                                                                                                                                                                                                                                                                                                                                        297 c
                                                                                                                                                                        .1013
```

ROD 03-DEC-2001

us-10-037-591a-2.p2n.rge

```
/codon_start=1
/product="interleukin 17E precursor"
/protein_id="ana85986.1"
/db_xref="GI:1726280"
/translation="VSLRIQEGCSHLPSCCPSKEQEPPEEWLKWSSASVSPPEPLSHT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HHAESCRASKDGPLNSRAISPWSYELDRDLNRVPQDLYHARCLCPHCVSLQTGSHMDP
LGNSVPLYHNQTVFYRRPCHGEEGTHRHYCLERRLYRVSLACVCVRPRVMA"
                                                                                                                                                                             Mus musculus.

Bukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Musmmalia; Eutheria; Rodentia; Sciurognathi; Muridae; Musinae; Muses 1 to 462)

To ases 1 to 462)
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Biology, Genentech, 1 DNA Way,
                                                                                                                                                                                                                                                                                               Forced expression of murine IL-17E induces growth retardation, jaundice, a Th2-biased response, and multiorgan inflammation i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 38 TrpSerThrValProValProProLeuGluProAlaArgProAsnArgHisProGluSer 57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CysArgAlaSerGluAspGlyProLeuAsnSerArgAlaIleSerProTrpArgTyrGlu 77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18 SerHisTrpProSerCysCysProSerLysGlyGlnAspThrSerGluGluLeuLeuArg 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28 AGTCACTTGCCCAGCTGCTGCCCCAGCAAGAAGCAAGAACCCCCGGAGGAGGAGGAGGTGGCTGAAG
                                                                                                   AY034088
Mus musculus interleukin 17E precursor, mRNA, partial cds.
AY034088
                                                                                                                                                                                                                                                                                                                                                                                   2 (bases 1 to 462)
Pan,G., Mao,W., Maruoka,M., French,D., Risser,P., Lee,J.,
Foster,J., Aggarwal,S., Nicholes,K., Guillet,S., Schow,P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              462
1116
7
20
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                         . Immunol. 167 (11), 6559-6567 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                       Direct Submission
Submitted (08-MAY-2001) Molecular E
South San Francisco, CA 94080, USA
Location/Qualifiers

    .459
    /product-"interleukin 17E"

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism="Mus musculus"
/db_xref="taxon:10090"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <1. .462
/note="IL-17E; cytokine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note="IL-17E; cytokine"
157 c 130 g 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-037-591A-2 (1-161) x AY034088 (1-462)
                                                                                                                                                   AY034088.1 GI:17266279
                                     970 GTGCGGCCCCGGGTCATG 987
                      155 ValArgProArgValMet 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           652.00
86.018
81.128
71.658
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3.2e-37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1. 462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Percent Similarity:
Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                  Gurney, A.
                                                                                                                                                                                                                                                                                                                                                                         1714825
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Alignment Scores:
                                                                                                                                                                                                                                                                                                                               mice
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       source
                                                                                                                      DEFINITION
                                                                                                                                                                                             ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
                                                                              RESULT 13
AY034088
                                                                                                                                       ACCESSION
VERSION
                                                                                                                                                                                                                                       REFERENCE
                                                                                                                                                                                                                                                                                                                                         JOURNAL
MEDLINE
                                                                                                                                                                                                                                                      AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             148
                                                                                                                                                                                                                                                                                                                                                                                                 AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28
                                                                                                                                                               KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                      PUBMED
                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                               TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORIGIN
                                                                                                          LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pred.
                                                 pp
                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                            /protein_id="CAD23797.1"
/protein_id="CAD23797.1"
/db_xref="GI:18697000"
/translation="MIVGTHTVSLRIQEGCSHLPSCCPSKEQEPPEEWLKWSSASVSP
PEPLSHTHRAESCRASKDGFLNSRAISPWSYELDRDLNRVPQDLYHARCLCPHCVSLQ
TGSHMDPLGNSVPLYFNRPCHGEEGTHRRYCLERRLYRVSLACVCVRPRVW"
                                  PAT 15-FEB-2002
                                                                                                                  Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                        Medlock, E., Yeh, R., Silbiger, S.M., Elliot, G.S., Nguyen, H.Q. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    849
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 789
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -----SerHisTrpProSerCysCysProSerLysGlyGlnAspThrSerGluGlu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LeuLeuArgTrpSerThrValProValProProLeuGluProAlaArgProAsnArgHis
                                    linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3 GlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyr----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1496
126
10
22
8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                     511. .>987
/note="unnamed protein product"
                                  DNA
                                                                                                                                                                                                                    Patent: WO 0208285-A 9 31-JAN-2002;
Amgen, Inc. (US)
                           Sequence 9 from Patent WO0208285.
AX365250
AX365250.1 GI:18696999
                                                                                                                                                                                                                                                                1. 1496
/organism="Mus musculus"
/db_xref="taxon:10090"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-037-591A-2 (1-161) x AX365250 (1-1496)
                                                                                                                                                                                         Jing, S.
Il-17 molecules and uses thereof
                                                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                           410 g
                                                                                                                                                                                                                                                                                                                                      /codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1.41e-39
693.00
81.93%
75.90%
                                                                                                                                                                                                                                                                                                                                                                                                                         417 c
                                                                                                      house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                            ď
                                                                                                                                                                                                                                                                                                                                                                                                                         347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Alignment Scores:
                                                                                                                                                                                                                                                                source
                                          DEFINITION
                                                                                                                  ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ..
0
RESULT 12
AX365250
                                                       ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                            REFERENCE
AUTHORS
                                                                                                                                                                                                     ȚITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                        BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               35
                                                                                                                                                                                                                                                                                                        CDS
                                                                                                                                                                                                                                                FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score:
                              LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             쉽
```

and

g à 셤 à 셤 ò 쉽

셤 δ

```
7284 GTGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCAGTGAA 7343 :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7403 CTCCCGAATGCCTGCCCTGTGTGTGCTGGCCAGGGTATGCGTGAGGGACCAGGGCAATTC 7462,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7583 AAACTCAGGGTTTTTTTTTTTTCACCTGCAAAATGATAATGCCCCCATAGGCTAATGT 7642
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7523 CTGTATTTGAGTCCTAGCTCTGACTCTCGATGATCTTGAGTCAATTCAAGTTTTCA 7582
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             43 ValproproLeuGluproAlaArgProAsnArgHisProGluSerCysArgAlaSerGlu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7463 CAGCTTACTTTCCCATTTTGATCTCAGAGGGCTGTAAAGGTTTGGGAGTTAGACAAGGT
                                                                                                                                                                                                                                                                                                                                                                        dbSTS:STS7881
Identified using the e-PCR software (G: Schuler)"
i 37198 c 39593 g 41638 t 2 others
                                                                                                                                                                                                 dbsTS:STS65422
Identified using the e-PCR software (G. Schuler)"
46758 / 46857
/note="matching EMBL:N91549
                                                                                                                                                                                                                                                                                           Identified using the e-PCR software (G. Schuler)" 57409. 57527
77409. 57527
RHdb:RH96140
                             66 ..
                             Percentage of bases with a quality value >= 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
1
744
1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative:
Mismatches:
Indels:
                                                                                                                                                 13550 13694
/note="matching EMBL:AA452257
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-037-591A-2 (1-161) x CNS01DTR (1-157910)
                                                                       /organism="Homo sapiens"
/db_xref="taxon:9606"
                                                                                                                                       clone_lib="CalTech-D"
                                           Location/Qualifiers
1. .157910
                                                                                                                     /clone="C-2201G16"
                                                                                                         /chromosome="14"
                                                                                                                                                                                                                                                                                dbSTS:STS53407
                                                                                                                                                                                    RHdb: RH92419
                                                                                                                                                                                                                                                               RHdb: RH76320
                                                                                                                                                                                                                                                                                                                                                           RHdb: RH13799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6.61e-24
495.00
17.52%
17.52%
54.40%
55936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                          æ
                                                                                                                                                                                                                                                                                                                                                                                                          39479
66 - 06
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match:
                                                             source
                                                                                                                                                                                                                                                                                                                                                                                                          BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           78
                                                                                                                                                       SIS
                                                                                                                                                                                                                                  STS
                                                                                                                                                                                                                                                                                                                STS
                                           FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                         ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                           DNA linear PRI 28-APR-2001
NC C-2201G16 of library CalTech-D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Chordata; Cranlata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases I to 157910)
Heillg.R., Petit.J.L., Vico.V., Dasilva,C., Robert,C., Wincker,P., Brottier,P., Cattolico,L., Barbe,V., Pelletier,E., Artiguenave,F., Gyapay,G., Saurin,W. and Weissenbach,J. Sequencing of the human chromosome 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Genoscope.

Direct Submission
Submitted (26-APR-2001) Genoscope - Centre National de Sequencage :
BP 191 91006 EVRY cedex - FRANCE (E-mail : seqref@genoscope.cns.fr - Web : www.genoscope.cns.fr)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The following BAC sequence is oriented from the T7 to the SP6 end. Upstream BAC (overlapping the T7 end) : R-124D2
Downstream BAC (overlapping the SP6 end) : R-66N24 (AC=AL135999)
                                                                                                                                HisCysValSerLeuGlnThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeu 117
                                                                                       Human chromosome 14 DNA sequence BAC C-2201G16 of library Callfrom chromosome 14 of Homo sapiens (Human), complete sequence.
             97
           LeuAspArgAspLeuAsnArgLeuProGlnAspLeuTyrHisAlaArgCysLeuCysPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           On Apr 30, 2001 this sequence version replaced gi:12001727
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Assembly program: Phrap; version 2.0
Quality coverage: 6.97x in Q20 bases; sum-of-contigs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Center: Genoscope / Centre National de Sequencage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Web site: http://www.genoscope.cns.fr/
Contact: SeqRef@genoscope.cns.fr
                                                                                                                                                                                                                                                                                                                                                         157910 bp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ----- Genome Center
                                                                                                                                                                                                                                                                                                                                                                                                       AL132855
AL132855.4 GI:13897280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Overall quality chart :
Range : bases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (bases 1 to 157910)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           code: GS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                            ArgValMet 160
                                                                                                                                                                                                                                                                              448 CGGGTCATG 456
                                                                                                                                                                                                                                                                                                                                                       CNS01DTR
                                                                                                                                                                                                                                                                                                                                                                                                                                                      naman.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Range
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM
         78
                                        208
                                                                       98
                                                                                                                                                                                                                                                            158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE
JOURNAL
REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                        RESULT 14
CNS01DTR
                                                                                                                                                                                                                                                                                                                                                                                                       ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                    VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMMENT
```

7283

62

42

7522

78

78

78

78

7223

ò	78	78		δδ
QQ	7703 CTTTTAAAACATCCCTATAATGGCCCCATGTTTTTTCTGGGTAAAATATTAGGGAATAATG	ATG 7762		qa
ολ	78	78		Qγ
qq	7763 GCATGATACAGGCATGAAGCATCCCAATACCAATTGATACTGCCCTGGCCATGAATGGGT	GT 7822		qa
οχ	78	78		
qq	7823 TAGTTATAAGCATACTAAAGGAGTGAAACCCTTAACTTTTGGGGGCAGCTGGCTG	GG 7882		
ογ	78	78		
qq	7883 AGCTGTGGACTGGATATCTTTGATCATGATCATGGGTACTGTATTCTTTCACTCAGTGTG	TG 7942		
οy	18	78		
qq	7943 CCACATAAATATTATAGTTCTCTATTTGTGCCATGATATGAAAAATATTAGGAAGTGCTG	TG 8002		
ΟŊ	78	78		
đ	8003 AAATATGAATGATGAAGCAAAATATTAAAAACTAGGGTCTTAGGGATTCCAGACATGTGA	GA 8062		
ò	78	78		
qq	8063 TTTCACTTCTTCCTTCTAGTICTGTCTTAGCATTGGCTTTGGGGGTAGATGGAGAAGTTC	TC 8122		
ΟŊ	18	78		
g	8123 AGTGGTGGGGGGGGGTCAGATCTAACTGAGATTGGATCTAGTGTGGACACTACAGGTCA	CA 8182		
δý	78	. 78		
QQ	9183 TGACTCTTTGGAGTGGTCTCAGAAGCTGGCTGGGTCCTGGGCCAAATCAGATGGCATGGG	3G 8242		
δ	18	78		
QQ	8243 AGCTICTTAGGGGAGGCGGGTGCCAGAGGTTAACTCAGCTGTCTTCCAGACCCCTTGCTG	IG 8302		
ò	78	78		
q	8303 GGAGTCTGTGAACCCGAGAACCACTCAGGTGGCTTTCCCCAAAGTGTGTTTTCTGTGCAATG	rg 8362	٠.	
δ	78	. 78		
qq	8363 CTCATCCCATGAGCTGCTTCTCAGAAAAAGTGATGCCAGGTAAACTTGGGAAAGACTGC	3C 8422		
ζ	18	. 48		
QQ	8423 TGTATCTCCTACCCCTTGGAGATTCATACTGTCATTGTACATTAAAGTCTGCAAGAAGTC	rc 8482		
δ		78		ΟŊ
gΩ	8483 TGTAGAAAGTAAACCGTTAAACTGGTGTTTCCCAAATTCATTTAAGCACCCAACGGTGC	3C 8542	: .	qq
δý	18	78		Ωy
g	8543 AGGTGATTTATTAGGGAACCCACTTTGGGAAGTGATGTGCTAGCTA	NG 8602		QD
ογ	78			
Бb	8603 GGCTTGTCTGTGTGGGGAATGGTCCCACAAGCTGGAGACTGTCGCCTGCCAGACTAATGG	19 8662		
οy	18	- 78		
qq	8663 AGTCGCAGACCTGGGGACAICTACITITCAGIGITITICATCTITCTTTCTTTCTTTCT	T 8722		
οy	18	- 78		
É				1

Qy	78	82	
qq	8783	CAAGTATGCTTATAATAAGCTTGCACAGGGGTCTGGAAGAATGTGCAGGAAATAGTTGA 88	
Qy	78	8.2	89
đ	8843	GGATAGCTTCTTCTGGGGAGTGGGGCTGGTAGGGAGACTATTAACTTTCACTCTTTAT 89	902
QY	78	82	80
QC	8903	TTTTACTTTTGCAATAATGCTATAATAATAA 89	862
οy	78	82 78	œ
q	8963	IAGAAACACCACCIAAAGTCCGGCCCGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGA 90;	022
QY	78	78	œ
q	9023 (GGTCGAGGTGGATTACCTAAGGTCAGGAGTTCAAGACCAGCCTGGCCAACCATGGC 90	082
οy	78	78	œ.
qq	9083	aacatcatgaaaccccatctctactaaaaatatgaaaattagctgggta;ggtggcggg 91	142
Οy	78	78	æ
QQ	9143 (CATCAGGAGAATCGCTCGAACCCAGGAGGTAGAGGTTGCAGTTGAGCCAAGATCGTGCCA 920	202
Qy	- 82	78	m
q	9203	CTGCACTCCAGCTTGGGTACTCCGTCTCAAAAAACAAAAACAAAAATCAAAAAAAA	562
οy	78	84 78	
q	9263	CAAAAACACCTAAAGTGTAATCATTACAATAAGAAACCTCATGCTGAGTCAGATAGAAGC 932	322
Oy	78 -	28	_
qq	9323 A	GTGCTGGTCAATGGAGGCTAAGGCAGGAGCCTGCTCACCCTCCCT	382
Οy	78 -	84 78	, ~
Dβ	9383 T	CCCAGGACCAGTTGGAAAGCACTCTGTCACCTGCTACCCTCATTTACAGTGGGGAAAAT 94	142
ογ	78 -		_
qq	9443 T	taataaaggaggaggtgacttgttcaaagttacacagcaagtgggttcagaactgaga 95	0.5
0y	78 -	78	_
Qa	9503 C	AAGAGGCCAAAGGCCCCAGACGGACCATTTCCTTCTTGGCACTCCCATGCCACCCCAC 95	62
Qy	- 61	;	
qq	9563 C	 CCTCTCTGTTTCCGGCCCATCTTTCCAAGGCCTGACAAGTGCCGCCCCCACAGGTTGGAC 962	22
ΟY	80 A	gAspLeuAsnArgLeuProGlnAspLeuTyrHisAlaArgCysLeuCysProHisCy	
qq	9623 A	AGACTIGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCCGCACTGC 96	82
QY	100 V	s 11	0
Db	9683 G	GTCAGCCTACAGACCAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCAC 974	
Οy		AsnGlnThrValPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyr 139	6
QQ	9743 · A	ccadactercrictaccedececcareccardeceagaagecacccacaagecric 980	02
0y	140 CY	ysLeuGluArgArgLeuTyrArgValSerLeuAlaCysValCysValArgProArgVal 159	
qq	9803 T	CCTGGAGCGCAGGCTGTACCTTAGCTTGTGTGTGTGTGTG	62

			•			•								
Schuler)"	Schuler)"	Schuler)"	Schuler)"	Schuler)"	Schuler)"	Schuler)"	Schuler)"	Schuler)"	Schuler)"	Schuler)"	Schuler)"	Schuler)"	Schuler)"	
. 9)	, 9)	(6.3	(G.	. 6	9)	(6.	(G.		. (6	(6.	(6.	(6.	(G.	
software	software 28	software	software	software	software	software	software	software	oftware	oftware	oftware 7	oftware	oftware	
e-PCR s	EMBL: H79035 the e-PCR so EMBL: AA007328	the e-PCR s EMBL:R94929	e-PCR so	e-PCR son H22648	e-PCR sc	e-PCR sc R59134	e-PCR sc M78864	e-PCR sc M78946	e-PCR software M78986	e-PCR software H72023	the e-PCR software EMBL:AA452257	e-PCR software N91549	the e-PCR software g 52626 t	
	g EMBL:1 ng the (ng the (EMBL:1	the EMBL:	the EMBL:	the MBL:	the MBL:	g the EMBL:	the EMBL:	the SMBL:	the	the SMBL:	the MBL:		
STS68485 :STS68485 ified using .82299	natching 78773 FS5514 Led usi 93808 natching	lbSTS:STS52191 dentified using 07758107951 note="matching	rs45044 led using .108181 natching	rs40201 Led usir .128525 natching	Hdb:RH53520 lbSTS:STS25817 dentified using 28419128543 note="matching	Hdb:RH53698 lbSTS:STS18321 dentified using 38462. 138738 note-"matching	53972 1542930 1ed using 138658 natching 35543	1243 1524710 1ed usir 138677 natching	.520163 .ed usin .138647	.820162 .ed usin. .138926 .atching	.848564 .ed usir .161761 .atching	.865422 .ed usin .194903	6320 S53407 ed usir c 4712	
RHdb:RH9872 dbSTS:STS68 Identified 82164822	Anote="matching El RHdb:RH73 dbsTS:STS5514 Identified using ' 93880. 93808 /note="matching El RHdb:RH75103	dbsrs:Srs52191 Identified using 107758107951 /note="matching"	dbsTs:STS45044 Identified using 107996108181 /note="matching RHdb:RH47139	dbsTs:STS40201 Identified using 128387. 128525 //note="matching"	RHdb:RH53520 dbsTs:STS25817 Identified using 128419, .128543 /note="matching"	RHdb:RH53698 dbSTS:STS18321 Identified using 138462. 138738 /note="matching El	RHdb:RH53972 dbSTS:STS42930 Identified usin: 138509138558 /note="matching RHdb:RH95543	RHdb:RH1243 dbSTS:STS24710 Identified using 1135568138677 /note="matching 18RH78R77	dbsrs:srs20163 Identified using 138568138647 /note="matching B	dbsTs:STS20162 Identified using 138805138926 /note="matching F	dbsrs:srs48564 Identified using 161617161761 /note="matching E	dbSTS:STS65422 Identified using 194804194903 /note="matching F	RHdb:RH76320 dbSTS:STS53407 Identified using 45673 c 47123	
70												.O.M.G. ()	50870 a	Scores:
STS	STS	STS	STS	STS	STS	STS	STS	STS	STS	STS	STS	STS	BASE COUNT ORIGIN	ment Sco
						:							BASE CO	Alignment
									·					
	″, E					:					•			
	22-MAY-2001 RPCI-11 uence.	stomi;	ker, P., lave, F.,		Sequencage cope.cns.fr 6.		the SP6 end. (AC=AL132855)		•					
	0	Euteleostomi Homo	Robert, C., Wincker, er, E., Artiguenave, .s, V., Cruaud, C.,	•	de nos 874		0				de		Schuler)"	
	linear 2 of libr complete	ertebrata; Hominidae:	obert, C r, E., A , V., Cr		tional gref@ge gi:613	cage	om the T7 t :-244E17 : C-2201G16	contigs			66 : 0		(G. Sch	
	- 0	; Vertebrata ni: Hominida	eti Inj		re : lac	de Sequencage [r/					1e >= 40		ware	
	196292 bp DNA 1 DNA sequence BAC R-124D of Homo sapiens (Human), 7859	Craniata; Ve Catarrhini;	Dasilva Pe,V., Pe deBera ibach,J	TIE: 14	oe - Cent (E-mail	onal de	The following BAC sequence is oriented from the following BAC (overlapping the T7 end): Fownstream BAC (overlapping the SP6 end)	ases; s		,	quality value s piens"	/db_xref="taxon:9606" /chromosome="14" /clone="R-124D2" /clone_lib="RPCI-11" /R950	AA908790 e-PCR software	167748
	196292 bp A sequence Homo sapie	lata; Cı ıtes; C	.co,V., , Barbe uls,T.,		Submitted (21-MAY-2001) Genoscope BP 191 91006 EVRY cedex - FRANCE (The property of the proper	Center: Genoscope / Centre National de Center code: GS Web site: http://www.genoscope.cns.fr. Contact: SeqRef@genoscope.cns.fr	e is or the T7 ng the tatisti	n 020 h			a quali ers sapiens	9606"	EMBL:AAthe e-	8043380566 /note="matching EMBL:AA167748
	196 4 DNA s of Hom 7859	HTG. human. Homo sapiens Eukaryota; Metazoa; Chordata; Mammalla; Eutheria; Primates;	292) .L., Vi lico, L., R., Br	292)	cedex - ope.cns	nome ce / Centr ww.geno noscope	The following BAC sequence is Upstream BAC (overlapping the Downstream BAC (overlapping the Constream Statis Assembly program: Phrap; versi	7.94x i art :			e of bases with a g Location/Qualifiers 1. 196292 /organism="Homo sap	"taxon: me="14" -124D2" b="RPCI	8398 tching 1 2162 69699 d_using	0566 tching
	CNSO000B Human chromosome 14 DN from chromosome 14 of ALL049829 ALC049829.4 GI:8217859	s Metazoa utheria	to 196 Petit,J Catto Kenberg Saurin,	ublished (bases 1 to 196292) oscope.	21-MAY- 5 EVRY 9enosc	scope, gs ttp://w	ng BAC C (over SAC (over	coverage: 7.9	10 30 829	1909 5193 18093 58972 111256	of bases with ocation/Qualifing 196292	rret= nromoson lone="R lone_li]	/8259/8398 /note="matchin RHdb:RH102162 dbSTS:STS69699	1338(ote="mai
161 9868	CNS0000B Human chromo from chromos AL049829 AL049829.4	HTG. human. Homo sapiens Eukaryota; M Mammalla; Eu	g, R., 1 g, R., 1 ier, P. M., Ecl	Unpublished 2 (bases 1 to 19 Genoscope.	tted (;	Center: Genosco Center code: GS Web site: http: Contact: SegRef	The followin Upstream BAC Downstream B	ty cove	44264 999999		Percentage C	# # # # # # # # # # # # # # # # # # #	THE STATE OF THE S	808 /n/
160 MetGly 9863 ATGGGC			1 (k Heili Brott Levy, Gyapa		Submi Submi BP 19 - Web On Ju	Cente Cente Web s Conta	The f Upstr Downs	Quality Overall Range	1 1 1 1 1	50 70 70 10 10 10 10 10 10 10 10 10 10 10 10 10	O)			
160	COSOLL 13 CNSO000B LOCUS DEFINITION ACCESSION VERSION	KEYWORDS SOURCE ORGANISM	REFERENCE AUTHORS	JOURNAL JOURNAL REFERENCE AUTHORS	JOURNAL						FEATURES SOUTC	S.	0	STS
90 g	CNSOC CNSOO LOCUS DEFIN ACCES	SOU	RE E	REF A A	COM						FEA			

Yred. NO.: Score: Percent Similarit Best Local Simila Query Match: DB:	11arity: 495.00 17.528 17.528 17.528 19.00 10.00	Lengument 199294 Matches: 158 Conservative: 0 Mismatches: 1 Indels: 1			
US-10-037-5	91A-2 (1-161) x CNS0000B	(1-196292)			·
Qy 3 G 1 Db 155231 C	GINVAlValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrpPrOSer 	.lMetGlyThrHisThrTyrSerHi 		22 155290	
Qy 23 C Db 155291 Te	CysCysProSerLysGlyGlnaspThrSerGluGluLeuLeuargTrpSerThrValPro 	rSerGluGluLeuLeuArgTrpSe 		42 155350	
Oy 43 V; Db 155351 G	ValProProLeuGluProAlaargProAsnArgHisProGluSerCysArgAlaSerGlu 	OASnArgHisProGluSerCysAr 		62 155410	· ··
Oy 63 A Db 155411 G	AspGlyProLeuAsnSerArgAlaIleSerProTrpArgTyrGluLeu	eSerProTrpArgTyrGluLeu 	2229	78 155469	
Qy 78 -			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	78	
Db 155470 C	CTCCCGAATGCCTGCCCTGTGTGTGCTGGCCAGGGTATGCGTGAGGGACCAGGGCAATTC	TGGCCAGGGTATGCGTGAGGGACC		155529	
Qy 78 -			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	78	
Db 155530 C	CAGCTTACTTTCCCATTTTGATCTCAGAGGGGCTGTAAAGGTTTGGGAGTTAGACAAGGT	GAGGGCTGTAAAGGTTTGGGAG 1		155589	
Qy 78 -			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	78	
pb 155590 C	CTGTATTTGAGTCCTAGCTCTGACTCTCATTGGATGATCTTGAGTCAATTCAAGTTTTCA	otcattgatgatcttgagtcaati		155649	:
оу 78-		6 1 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	* * * * * * * * * * * * * * * * * * * *	78	
Db 155650 A	AAACTCAGGGTTTTTTTTTTTTTCACCTGCAAAATGATATAATGCCCCATAGGCTAATGT	CTGCAAATGATATAATGCCCCAI		155709	
oy 78 -			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.8	
Db 155710 G	GCAGATCAAATGAAATATAATGTATGTAAAAGTCTGTATTTATGTTGGTTCTCTCTTTT	STAAAAGTCTGTATTTATGTTGGT	rcrcrcrrrr	155769	
oy 78 -				7.8	,
Db 155770 C	CTTTTAAAACATCCCTATAATGGCCCCATGTTTTTTTCTGGGTAAAATATTAGGGAATAATG	atgitititciggtaaaatati	AGGGAATAATG	155829	
оу 78-			1 1 1 1 1 1 1 1 1	78	
Db 155830 G	GCATGATACAGGCATGAAGCATCCCAATACCAATTGATACTGCCCTGGCCATGAATGGGT	ATACCAATTGATACTGCCCTGGC	CATGAATGGGT	155889	
оу 78-				78	
Db 155890 T	TAGTTATAAGCATACTAAAGGAGTGAAACCCTTAACTTTTGGGGGCAGCTGGCTG	AAACCCTTAACTTTTGGGGGCAGC	rescrescres	155949	
оу 78-				78	
Db 155950 A	agctgtggactggatatctttgatcatgatcatgggtactgtattctttcactcagtgtg	NTGATCATGGGTACTGTATTCTTT	CACTCAGTGTG	156009	
оу 78-				78	:
Db 156010 C	CCACATAAATATTATAGTTCTCTATTTGTGCCATGATATGAAAAATATTAGGAAGTGCTG	ttgtgccatgatatgaaaaatatt	AGGAAGTGCTG	156069	
oy 78 -				78	
Db 156070 A	aaatatgaatgaatgaagcaaaatattaaaaactagggtcttagggattccagacatgtga		CAGACATGTGA	156129	
Oy 78 -				7.8	

QΥ	78		78
ΩD	156190	AGTGGTGGGGAGGGGTCAGATCTAACTGAGATTGGATCTAGTGTGGACACTACAGGTCA	156249
ΟŶ	78		78
Ωp	156250	TGACTCTTTGGAGTGGTCTCAGAAGCTGGCTGGGTCCTGGGCCAAATCAGATGGCATGGG	156309
QY	78		78
Dβ	156310	AGCTTCTTAGGGGAGGCGGGTGCCAGAGGTTAACTCAGCTGTCTTCCAGACCCCTTGCTG	156369
Qy	78		. 84
QΩ	156370	GGAGTCTGTGAACCCGAGAACCACTCAGGTGGCTTTCCCCAAAGTGTGTTCTGTGCAATG	156429
Qy	78		78
qq	156430	CTCATCCCATGAGCTGCTTCTCAGAAAAAGTGATGCCAGGTAAACTTGGGAAAGACTGC	156489
٥y	78		. 82
QQ	156490	TGTATCTCCTACCCCTTGGAGATTCATACTGTCATTGTACATTAAAGTCTGCAAGAAGTC	156549
Qy	78		78
qq	156550	TGTAGAAAGTAAAACCGTTAAAACTGGTGTTTCCCAAATTCATTTAAGCACCCAACAGGTGC	156609
Qy	78		78
QQ	156610	AGGTGATTTATTAGGGAACCCACTTTGGGAAGTGATGTGCTAGCTA	156669
Qy	78		78
qa	156670	GGCTTGTCTGTGTGGGGAATGGTCCCACAAGCTGAGACTGTCGCCTGCCAGACTAATGG	156729
Qy	78		78
qa	156730	AGTCGCAGACCTGTGGGACATCTACTTTTCAGTGTTTTTCATCTTTCTT	156789
Qy	78		78 .
qa	156790	TTTTTTTTTTTGCCATGAAATCCTTTCAGAATAAGTAAATAAGTCTTCCCATGCACTCT	156849
Qy	78		78
qa	156850	CAAGTATGCTTATAATATAAGCTTGCACAGCGTCTGGAAGAATGTGCAGGAAATAGTTGA	156909
Qy	78		78
qa	156910	GGATAGCTICTICTGGGGAGTGGGGCTGGTAGGGAGAGACTATTAACTTTCACTCTTAAT	156969
Qy	78		78
QΩ	156970	ACTCTTTAATACTTGGATGTCAGAGTGGTTTTTACTTTTGCAATAATGCTATAATAAAAAAA	157029
QY	78		78
qq	157030	TAGAAACACCACCTAAAGTCCGGCCCGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGA	157089
Οŷ	78		78
q ₀ ,	157090	GGTCGAGGTGGGTTACCTAAGGTCAGGAGTTCAAGACCAGCCTGGCCAACCATGGC	157149
. 0y	78		78
qq	157150	CAACATCATGAAACCCCATCTCTACTAAAAATATGAAAATTAGCTGGGTATGGTGGCGGG	157209
QY	78		78
qa	157210	CATCAGGAGAATCGCTCGAACCCAGGAGGTAGAGGTTGCAGTTGAGCCAAGATCGTGCCA	157269
Οy	78		78

:							-
157329 78 157389	78 157449 78	157509	157569 78 157629 79	157689 99 157749	119 157809 139 157869	159 157929	
CTGCACTCCAGCTTGGGTACTCCGTCTCAAAAAACAAAAAAAA	AGTGCTGGTCAATGGAGGCTAAGGCAGGAGCCTGCTCACCCTCCCCTGCCTCACGG	TCCCAGGACCAGTTGGAAAGCACTCTGTCACCTGCTACCCTCATTTACAGTGGGGAAAAT	DD 197310 ITAMINANGANGGIGACTIGITCAAAGITACACAAGTAGGGGTTCAGAACTGAGA Qy 78	Db 157630 CCTCTCTGTTTCCGGCCCATCTTTCCAAGGCCTGACAAGTGCCGCCCCCACAGGTTGGAC OY 80 ArgAspLeuAsnArgLeuProGlnAspLeuTyrHisAlaArgCysLeuCysProHisCys Db 157690 AGAGACTTGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCTGTGCCTGTGC	ValSerLeuGlnThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeuTyrHis	QY 140 CysLeuGluArgArgLeuTyrArgValSerLeuAlaCysValCysValArgProArgVal Db 157870 TGCCTGGAGGCGAGGCTGTACCTTAGCTTGTGTGTGTGTG	
157270 78 157330	78 157390 78	157450 78 157510	78 78 157570	157630 80 157690	Oy 100 Db 157750 Oy 120 Db 157810	140 157870 160 157930	
04 04 05	oy oy	g & g	6 6 6	03 03 05	90 90 90 90	oy eb oy	

Search completed: May 12, 2003, 02:36:25 Job time: 1817 secs

Appli Appli

> , Ygapext , Fgapext , Delext , Xgapext

Xgapop 10.0, Ygapop 10.0, Fgapop 6.0, Delop 6.0,

BLOSUM62

Scoring table:

US-10-037-591A-2 910

Perfect score:

Title:

Sequence:

OM protein

Run on:

length: 0 length: 2000000000

sed

Minimum DB Maximum DB

Searched

Command line parameters:

Post-processing:

```
195 CCGCGGGACTGCGCGGACCGGCCGGAGGAGCTCCTGGAGCAGCTGTACGGGCGGCTGGCG 254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   their use
                                                                                      Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                           Sequence (Sequence (Sequen
                                                                                                                                                                                                                                                                                                           Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence Sequence Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence Sequence Sequence
                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                    Seguence
                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 2, Application US/09724864
Patent No. 6380362
GENERAL INFORMATION:
APPLICANT: Watson, James D
APPLICANT: Murison, James G
TITLE OF INVENTION: Polynucleotides, polypeptides expressed
TITLE OF INVENTION: Dy the polynucleotides and methods for thei;
FILE REFERENCE: 11000.1050U1
CURRENT FILING DATE: 2000-11-28
PRIOR APPLICATION NUMBER: U.S. No. 6380362 60/171,678
PRIOR FILING DATE: 1999-12-23
NUMBER OF SED ID NOS: 72
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1258
42
19
58
36
7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                        US-09-072-596-290 
US-08-911-853-24
US-09-479-409-24
US-09-479-453-24
US-09-034-810-5
US-08-685-239-5
US-09-034-810-3
US-08-685-239-3
US-08-62-239-3
US-08-62-235-6
US-09-022-255-6
US-08-400-159-7
US-08-583-5628-7
US-08-583-5628-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-037-591A-2 (1-161) x US-09-724-864-2 (1-1258)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ProSerLysGlyGlnAspThrSerGluGluLeuLeuArg-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.00316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121.00
39.35%
27.10%
13.30%
                                                                                                                                                                                                                                                               498
4464
4483
8367
8367
954
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1050
1758
1776
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2142
2151
2151
2151
2151
2160
2385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA
ORGANISM: Mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 1258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-724-864-2
  US-09-724-864-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25
    Score:
                                                                                                               O
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     δλ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -MODEL-frame+_pri.model -DEV-xlh
-Q-/cgn2_1/USPTO_spool/US10037591/runat_06052003_123155_22305/app_query.fasta_1.327
-De-/cgn2_1/USPTO_spool/US10037591/runat_06052003_123155_22305/app_query.fasta_1.327
-De-/cgn2_1/USPTO_spool/US10037591/runat_0605203_123155_22305/app_query.fasta_1.327
-DE-/copexr=0 -UNITS-bits -STARR=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=0 -ALIGN=15
-MODE-LCAL -OUTFWNP-pco -NORM=ext -HEAPSIZE=500 -MINIEN-0 -MAXIEN-200000000
-USER=US10037591_eCGN_1_1.32_erunat_0605203_123155_22305 -NCPU=6 -ICPU=3
-NO_XIPXY -NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -LONGIGG -DEV_TIMEOUT=120
-WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Appli
Appli
Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Appli
Appli
Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Appli
Appli
                                                                                                                                           % Search time 43 Seconds
(without alignments)
1148.255 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                             MYQVVAFLAMVMGTHTYSHW......ERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1,
Sequence 7,
Sequence 9,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        882724
                  GenCore version 5.1.4_p5_4578
Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /cgn2_6/ptodata/1/ina/5A_COMB.seq:*
/cgn2_6/ptodata/1/ina/5B_COMB.seq:*
/cgn2_6/ptodata/1/ina/6A_COMB.seq:*
/cgn2_6/ptodata/1/ina/6B_COMB.seq:*
/cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
/cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*

    nucleic search, using frame_plus_p2n model

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-08-833-823-12
US-09-034-810-1
US-08-68-239-1
US-08-472-994A-7
US-08-477-674-9
US-08-473-791-9
US-08-473-673-9
US-08-795-691-1
US-08-432-994A-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-724-864-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                          441362 seqs, 153338381 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                               May 12, 2003, 02:02:19
```

Issued_Patents_NA:*

Database :

.

DB

Length

Query Match

Score

. №

Result

1258 813 813 813 813 510 52285 2285 2285 2285 456

110987654371

00000

86..544

us-10-037-591a-2.p2n.rni

; LOCATION; US-08-514-014-11		Query Match: DB:	15 15		Oy 51 ProAst	71 71 290		Oy 111 ArgGl	Db 389GG	446		Db 497	RESULT 3 US-08-833-823-1; ; Sequence 11;	<pre>; Patent No. 59 ; GENERAL INFO; ; APPLICANT:</pre>	; APPLICANT: ; APPLICANT: ; APPLICANT:	; TITLE OF I; ; TITLE OF I; ; NUMBER OF	SS.	CITY: C STATE: 1 COUNTRY:	COMPUTER R ; MEDIUM T	OPERATION SOFTWARE CURRENT AP	; APPLICAT; FILING D; CLASSIFI
	,		·.				· .														
							•														-
38	51 ProAsnargHisProGluSerCysArgAlaSerGluAspGlyProLeuAsn 67 1	68 SETATGATAILESETPTOTTPATGTYTGLULEUASPATGASPLEUASAATGLEUPTOGLN 87	88 ASPLeuTyrHisAlaArgCysLeuCysProHisCysValSerLeuGlnThrGlySerHis 107	108 MetaspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThrValPhe 124	125TyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCys 140	141 LeuGluArgArgLeuTyrArgValSerLeuAlacysValCysVal 155 ::: :::::::::::::::::::::::::::::::	RESULT 2 US-08-514-014-11 ; Sequence 11, Application US/08514014 : Patent No. 5707829	LIGHT	รีเก็	CODED THEREBY	CORRESPONDENCE ADDRESS: ADDRESSEE: Genetics Institute, Inc Legal Affairs STREET: 87 CambridgePark Drive	CITY: Cambridge STATE: Massachusetts	D & A	MEDIUM TYPE: Floppy disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS	SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/514,014	FILING DATE: CLASSIFICATION: 514 ATTORNEY/AGRYI INFORMATION:	NAME: Brown, Scott A. REGISTRATION NUMBER: 32,724 REFERENCE/DOCKET NUMBER: G16000	2 % ·	INFORMATION FOR SEQ ID NO: 11: SEQUENCE CHARACTERISTICS: LENGTH: 813 base pairs	IIFE: HUCLEIC ACIU STRANDEDNESS: double TOPOLOGY: linear MOLECULE TYPE: ODNA	HYPOTHETICAL: NO FEATURE: NAME/KEY: CDS
g G	S G	8 8	oy O	O. Db	5 2	Oy Db	RE US														

```
nrTyrSerHisTrpProSerCysCysProSerLysGlyGlnAspThrSerGluGlu 34 .
                                                                                                                                                                                                                                                                                                                                               ....----CCTGTGCCAGGAGGTAGTATGAAGCTTGACATTGGCATC 238
                                                                                                                                                                                                                                                                                                                                                                                          {\tt laArgCysLeuCysProHisCysValSerLeuGlnThrGlySerHisMetAspPro~110}
                                                                                                                                                                                                                                                                                                                                                                                                                    |||:::||| ;
||CAGTGTAGGAACTTGGGCTGCATGCTCAA-------388
                                                                                                                                                                                                                                                                                                                                                                                                                                                     yAsnSerGluLeuLeuTyrHisAsn------GlnThrValPheTyr 125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            erProTrpArgTyrGluLeuAspArgAspLeuAsnArgLeuProGlnAspLeuTyr 90
                                                                                                                                                                                                        suArgTrpSerThrValProValPro------ProLeuGluProAlaArg
                                                                                                                                                                                                                                                                     snArgHisProGluSerCysArgAlaSerGluAspGlyProLeuAsnSerArgAla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    'ORMATION:
'Dacobs, Kenneth
'E McCoy, John
'E Kelleher, Kerry
'E Carlin, McKeough
INVENTION: DNA SEQUENCES AND SECRETED PROTEINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3: Genetics Institute, Inc. -- Legal Affairs
87 CambridgePark Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        UM TYPE: Floppy disk
UTER: IBM PC compatible
ATING SYSTEM: PC-DOS/MS-DOS
WARE: Patentin Release #1.0, Version #1.25
I APPLICATION NUMBER: US/08/633,823
ICATION NUMBER: US/08/633,823
SIFICATION: 530
       813
40
22
49
41
      Length:
Matches:
Conservative:
Mismatches:
Indels:
Gaps:
                                                                                                               2 (1-161) x US-08-514-014-11 (1-813)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              --GTGACTGTTGCTGCACCTGCGTCACCCCT 526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              rgValSerLeuAlaCysValCysValArgPro 157
                                                                                                                                                                             CTTTTTCCAAAAGCCTGAGAGTTGCCCG-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Application US/08833823
969093
       0.00192
120.50
40.79%
26.32%
13.24%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cambridge
Massachusetts
Y: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCES: 1
DENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      READABLE FORM:
TYPE: Floppy
                                         ırity:
nilarity:
..
```

```
Golden'Fleet, Margaret
/ENTION: Human CTLA-8 and Uses of CTLA-8-Related Proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               200 ------CCTGTGCCAGGAGGTAGTATGAAGCTTGACATTGGCATC 238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    239 ATCAAT-----GAAAACCAGCGCTTTCCATGTCACGTAACATCGAGGCCGCTCC 289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                51 ProAsnArgHisProGluSerCysArgAlaSerGluAspGlyProLeuAsnSerArgAla 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15 HisThrTyrSerHisTrpProSerCysCysProSerLysGlyGlnAspThrSerGluGlu 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        71 IleSerProTrpArgTyrGluLeuAspArgAspLeuAsnArgLeuProGlnAspLeuTyr 90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -- ProLeuGluProAlaArg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    813
222
449
411
                                                                                                                                                                                                                                                                                                                                                    : PatentIn Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-037-591A-2 (1-161) x US-09-034-810-1 (1-813)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        datches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     167 CATACTTTTTCCAAAAGCCTGAGAGTTGCCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         35 LeuLeuArgTrpSerThrValProValPro---
                                                                                                                                                                 3: Genetics Institute, Inc.
87 CambridgePark Drive
                                                                                                                                                                                                                                                                                                                                                                                      US/09/034,81
                                                                                                                                                                                                                                                                                             :: Floppy disk
IBM PC compatible
:YSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/685,239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME: Brown, Scott A.
REGISTRATION NUMBER: 32,724
REFERENCE/DOCKET NUMBER: GIT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 498-8224
                                                            Neben, Steven
Giannotti, JoAnn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE: (617) 498-8224
TELEFAX: (617) 876-5851
INFORMATION FOR SEQ ID NO: 1: SEQUENCE CHARACTERISTICS:
         Goldman, Samuel
Pittman, Debra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.00192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    120.50
40.79%
26.32%
13.24%
                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION DATA: APPLICATION NUMBER: US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         813 base pairs
nucleic acid
                                                                                                                                                                                                                          Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     double
                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                              TITLE OF INVENTION: HUNDBER OF SEQUENCES: 9
                                             Sha
                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC
OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            56..544
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    inear
                                                                                                                                                                                                       CITY: Cambridge
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Percent Similarity:
Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HYPOTHETICAL:
                                                                                                                                                                                                                                                            02140
                                                                                                                                                                     ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Alignment Scores:
                                                                                                                                                                                                                                         COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ,
US-09-034-810-1
                                                                                              APPLICANT:
                                                                                                                                                                                                                                                                                                                                                    SOFTWARE
                                         APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                    STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH:
                                                                                                                                                                                                                        STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ---GGAAAGGAAGGAAGACTCCATGCATCCCATCCAGCAAGAGACCCTGGTCGTC 445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        126 ArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGluArgArgLeu 145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        290 ACCTCCCCTGGAATTACACTGTCACTTGGGACCCCAACCGGTACCCCTCGGAAGTTGTA 349
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HisAlaArgCysLeuCysProHisCysValSerLeuGlnThrGlySerHisMetAspPro 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ----GlnThrValPheTyr 125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                446 CGGAGGAAG-----CACCAAGGCTGCTCTTTCTTTCCAGTTGGAGAAGGTGCTG 496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            51 ProAsnArgHisProGluSerCysArgAlaSerGluAspGlyProLeuAsnSerArgAla 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ---ProLeuGluProAlaArg 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15 HisThrTyrSerHisTrpProSerCysCysProSerLysGlyGlnAspThrSerGluGlu 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 350 CAGGCCCAGTGTAGGAACTTGGGCTGCATCAATGCTCAA-------
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-037-591A-2 (1-161) x US-08-833-823-11 (1-813)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -----GTGACTGTTGGCTGCACCTGCGTCACCCCT 526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   146 TyrArgValSerLeuAlaCysValCysValArgPro 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     167 CATACTTTTTCCAAAAGCCTGAGAGTTGCCCG-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      111 ArgGlyAsnSerGluLeuLeuTyrHisAsn----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       35 LeuLeuArgTrpSerThrValProValPro---
                                                                     NAME: Brown, Scott A.
REGISTRAILON NUMBER: 32,724
REFERENCE/DOCKET NUMBER: G16000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 498-8224
TELEPAX: (617) 876-5851
INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 1, Application US/09034810 Patent No. 6043344 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Kelleher, Kerry
Carlin, McKeough
                                                    ATTORNEY/AGENT INFORMATION:
NAME: Brown, Scott A.
                                 11-AUG-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Jacobs, Kenneth
                                                                                                                                                                                                                                                                                                                                                                                                                                       0.00192
                                                                                                                                                                                                                                                                                                                                                                                                                                                        120.50
40.79%
26.32%
13.24%
                                                                                                                                                                                                                LENGTH: 813 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE: 11-AUG-
                                                                                                                                                                                                                                                                                                                                                             86..544
                                                                                                                                                                                                                                                                         linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Percent Similarity:
Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                     TOPOLOGY: 11
                                                                                                                                                                                                                                                                                                         HYPOTHETICAL:
FEATURE:
                                                                                                                                                                                                                                                                                                                                           ; NAME/KEY:
; LOCATION:
US-08-833-823-11
                                                                                                                                                                                                                                                                                                                                                                                                                    Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-034-810-1
                                                                                                                                                                                                                                                                                                                                                                                                                                     Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
```

Ouery Match: 3	239 71 72 290 91 91 350 1111	Oy 126 ArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGluArgArgLeu 145	US-08-432-994A-7 ; Sequence 7, Application US/08432994A ; Patent No. 6274711 ; GENERAL INFORMATION: APPLICANT: Golstein, Pierre APPLICANT: Rouvier, Eric APPLICANT: Fossiez, Francois APPLICANT: Lobecque, Serge J.E. APPLICANT: Banchereau, Jacques APPLICANT: Banchereau, Jacq	lito cornia (ornia 104 SIE FORM: Floppy dis MPC compat STEM: PC-DO TYTEM: PC-DO TYTEM: PC-DO TYTEM: PC-DO TYTEM: PC-DO TYTEM: PC-DO O2-MAY-199 CON DATA:	FILING DATE: 27-MAY-1994 ; PRIOR APPLICATION DATA: ; APPLICATION NUMBER: US 08/177,747 ; FILING DATE: 05-JAN-1994
Oy 91 HisalaArgCysLeuCysProHisGysValSerLeuGlnThrGlySerHisMetAspPro 110	TGTTGGCTGCACCTCTCTCTCTCTCTCTCTCTCTCTCTCT	Giannot Golden' NVENTION SEQUENCES ENCE ADDI E: Gene' 87 Cambridge Massachuk	CATO	TELEPHONE: (617) 498-8224 TELEPHONE: (617) 876-581 INFORMATION FOR SEQ ID NO: 1: SEQUENCE CHARACTERISTICS: LENOTH: 813 base pairs TYPE: nucleic acid STRANDEDNES: double STRANDEDNES: double HYPOTHETICAL: NO FEATURE: NAME/KEY: CDS LOCATION: 56.544	Alignment Scores: 0.00192 Length: 813 Pred. No.: 120.50 Matches: 40 Score: 40.79% Conservative: 22 Best Local Similarity: 26.32% Mismatches: 49

```
739 T-----TCCACAGGCCCTCCACAGGTTG 713
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ----CysValSerLeuGlnThrGlySerHisMetAspProArgGlyAs 113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                712 GCAGTCAGGATGACCGTGTGGCCACAGAAGCCCAGGGCGTCCTCGCCCTGCACATTCACG 653
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   52 ------AsnArgHisProGluSerCysArgAlaSerGluAspGlyProLeuAsnSe 68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -----GGTCCAGGGTGTGGGTGCTCCTGGTTCATTGGTGCAGACCACACCAGCGTCT 530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     68 rArgAlalleSerProTrpArgTyrGluLeuAspArgAspLeuAsnArgLeuProGlnAs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9 AlaMetValMetGlyThrHisThrTyrSer-His---TrpProSerCysCysProSerLy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27 sGlyGlnAspThrSerGluGluLeuLeuArgTrpSerThrValProValProPro----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             652 CTGATGGACAGGTCGCAGCCCCGCTGGCTGTCAAAGATCTGGCCAAGGGCCTCCGAGA--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ----LeuGluProAlaArgPro----
                                                                                                                                                                                                  SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-037-591A-2 (1-161) x US-08-477-674-9 (1-2285)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels:
        SEE: Cetus Oncology Corporation
: 1400 Fifty-Third Street
Emeryville
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    88 pLeuTyrHisAlaArgCysLeuCys-----
                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/316,714
FILING DATE:
                                                                                                                                                                                                                                             APPLICATION NUMBER: US/08/477,674
FILING DATE: 07-JUN-1995
CLASSIFICATION: 530
                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/07/961,404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            594 -----GCTCCTGGAGA-----
                                                                                                                                                                IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         relecommunication information
Telephone: (510) 420-3152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 15-0CT-1992
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Kenneth M.
REGISTRATION NUMBER: 34,1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (510) 658-5470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2285 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4.45
93.50
30.23%
25.58%
10.27%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEX: N/A
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            single
                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 nucleic acid
                                                                                                                                                                                     OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 linear
                                                                                                                                                                                                                                                                  FILING DATE: 07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRANDEDNESS:
                                                                                                        94608
                                                                    ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Alignment Scores
                                                                STATE: C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CENGIH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-08-477-674-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        46 ---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ..
9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCACGAAATCCAGGATGCCCAAATTCTGAGGACAAGAACTTCCCCGGACTGTGATGGTC 183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        184 AACCTGAACATCCATAACCGGAATACCAATACCAATCCCAAAAGGTCCTCAGATTACTAC 243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         88 AspLeuTyrHisAlaArgCysLeuCysProHisCysValSerLeuGlnThrGlySerHis 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           357
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          108 MetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArgArg 127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGluArgArgLeuTyrArg 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ---ArgAlaIleSerProTrpArgTyrGluLeuAspArgAspLeuAsnArgLeuProGln
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     304 GTGATCTGGGAGGCAAAG-----TGCCGCCACTTGGGCTGCATCAACGCTGATGGGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  358 GTGGACTACCACATGAACTCTGTCCCCATCCAGCAAGAGATCCTGGTCCTGCGCAGGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ----TGCCCCAACTCCTTCCGGCTGGAGAAGATACTG----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ----ArgAlaSerGluAspGlyProLeuAsnSer---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Halenbeck, Robert F.
APPLICANT: Taylor, Eric W.
APPLICANT: Wang, Alice M.
APPLICANT: Casipit, Clayton L.
TITLE OF INVENTION: Secreted Mac-2-Binding Glycoprotein
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length:
Matches:
Conservative:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   45 ProLeuGluProAlaArgProAsnArgHisProGluSerCys-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-037-591A-2 (1-161) x US-08-432-994A-7 (1-510)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     148 ValSerLeuAlaCysValCysValArgProArgVal 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps:
                                                                         NAME: Ching, Edwin P.
REGISTRATION NUMBER: 34,090
REFERENCE/DOCKET NUMBER: DX0388K3
TELEPHONE: 415-852-9196
TELEPHONE: 415-496-1200
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 510 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/077,203
FILING DATE: 14-JUN-1993
ATTONIEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-477-674-9/c
; Sequence 9, Application US/08477674
; Patent No. 5644035
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Koths, Kirston E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.269
96.50
37.12%
25.76%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 418 CCTCCACAC-----
                                                                                                                                                                                                                                                                                                 TOPOLOGY: linear MOLECULE TYPE: CDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Percent Similarity:
Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                            ; NAME/KEY:
; LOCATION:
US-08-432-994A-7
                                                                                                                                                                                                                                                                                                                                                                                                                                               Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT
                                                                                                                                                                                                                                                                                                                                             FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
```

----ProHis-----

```
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             94608
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            relephone:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-316-714-9/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY:
                                             739 T--
                                                                                                                                                                                                                                                                                                                                                    66
                                                                              46
                                                                                                                                                                                                                                                                                                                                                                                                                                                      477
                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                           qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   113 nSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArgArgProCysHisGlyGluLy 133
                                                               ----GIGAGGCCICGGIICCCGIGCACTGGACCICG 446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9 AlaMetValMetGlyThrHisThrTyrSer-His---TrpProSerCysCysProSerLy 27
529 CTCTCGTGCCTGCAGTTGCTCTTCAGCCAGCCCAGGGACTTGCAGTCGGCCA-----
                                                                                                                                                                                                                                                                                                                  APPLICANT: Casipit, Clayton L. TITLE OF INVENTION: Secreted Mac-2-Binding Glycoprotein NUMBER OF SEQUENCES: 11
CORRESPONDENCE AUDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-037-591A-2 (1-161) x US-08-473-791-9 (1-2285)
                                                                                              133 sGlyThrHisLysGlyTyrCysLeuGluArgArg 144
                                                                                                                                445 TCCAGCATGATGGGGCCTGATCCTTGCCCGAAGG 412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length:
                                                                                                                                                                                                                                                                                                                                                                                     SSEE: Cetus Oncology Corporation
P: 1400 Fifty-Third Street
Emeryville
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US/08/316,714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/08/473,791
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US/07/961,404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                               Sequence 9, Application US/08473791
Patent No. 5736340
                                                                                                                                                                                                                                                                   Halenbeck, Robert
Taylor, Eric W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELECOMMUNICATION INFORMATION TELEPHONE: (510) 420-3152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA (genomic)
                                                                                                                                                                                                                                                     Koths, Kirston E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (510) 420-315;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Goldman, Kenneth M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: 15-OCT-1992 TTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (510) 658-5470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2285 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REGISTRATION NUMBER: 3. REFERENCE/DOCKET NUMBER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        30.23%
25.58%
10.27%
                                                                                                                                                                                                                                                                                                    : Wang, Alice M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEX: N/A
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA: APPLICATION NUMBER: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ZIP: 94608
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OPERATING SYSTEM:
                                                                                                                                                                                                                                  GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                        USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRANDEDNESS
                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE:
                                                                                                                                                                                    US-08-473-791-9/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-473-791-9
                                                                                                                                                                                                                                                                                     APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                        STREET:
                                                                                                                                                                                                                                                                                                      APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                      STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                               477
                                                                                                                                                                 RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                g
g
                               ð
                                                               g
                                                                                                ŏ
```

```
-----GGTCCAGGGTGTGGGTGCTCCTGGTTTCATTGGTGCAGACCACCAGCGTCT 530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -----GIGAGGCCTCGGTTCCCGTGCACTGGACCTCG 446
                                                   -----TCCACAGGGCCTGGGCCTCCAGGTTG 713
                                                                                                                                                                                                                                                                     552 crgarggacaggregecececerggergreaagarerggecaaggeerecgaga-- 595
                                                                                                                                                                                                                    -----AsnArgHisProGluSerCysArgAlaSerGluAspGlyProLeuAsnSe 68
                                                                                                                                                                                                                                                                                                                               68 rargalalleSerProTrpArgTyrGluLeuAspArgAspLeuAsnArgLeuProGlnAs 88
                                                                                                                                                                                                                                                                                                                                                                                                                                            712 GCAGTCAGGATGACCGTGTGGCCACAGAGCCCAGGGCGTCCTCGCCCTGCACATTCACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   113 nSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArgArgProCysHisGlyGluLy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          529 CICICGIGCCIGCAGIIGCICITCAGCCAGCCCAGGGACIIGCAGICGGCCA-----
27 sGlyGlnAspThrSerGluGluLeuLeuArgTrpSerThrValProValProPro-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Koths, Kirston E.
APPLICANT: Halenbeck, Robert F.
APPLICANT: Taylor, Eric W.
APPLICANT: Wang, Alice W.
APPLICANT: Casipit, Clayton L.
TITLE OF INVENTION: Secreted Mac-2-Binding Glycoprotein NUMBER OF SEQUENCES: 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/316,714
                                                                                                             ---LeuGluProAlaArgPro-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    445 TCCAGCATGATGGGGCCTGATCCTTGCCCGAAGG 412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 133 sGlyThrHisLysGlyTyrCysLeuGluArgArg 144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/961,404
FILING DATE: 15-0CT-1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STREET: 1400 Fifty-Third Street CITY: Emeryville
                                                                                                                                                                                                                                                                                                                                                                                        ------GCTCCCTGGAGA-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 9, Application US/08316714
Patent No. 5965382
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Goldman, Kenneth M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REGISTRATION NUMBER:
REFERENCE/DOCKET NUME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PELECOMMUNICATION
```

```
------rccacaegecreegecrecaegre 713
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            112 GCAGTCAGGATGACCGTGTGGCCACAGAAGCCCAGGGCGTCCTCGCCCTGCACATTCACG 653
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    652 CTGATGGACAGGTCGCAGCCCCGCTGGCTGTCAAGATCTGGCCAAGGGCCTCCGAGA-- 595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -----GGTCCAGGGTGTGGGTGCTCCTGGTTTCATTGGTGCAGACCACCAGCGTCT 530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ....-.--CysValSerLeuGlnThrGlySerHisMetAspProArgGlyAs 113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        529 CTCTCGTGCCTGCAGTTGCTCTTCAGCCAGCCCAGGGACTTGCAGTCGGCCA---- 478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            nSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArgArgProCysHisGlyGluLy 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ------AsnArgHisProGluSerCysArgAlaSerGluAspGlyProLeuAsnSe 68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98
                                                                                                                                                                                                                                                                                                                          9 AlaMetValMetGlyThrHisThrTyrSer-His---TrpProSerCysCysProSerLy
                                                                                                                                                                                                                                                                                                                                                                                                  27 sGlyGlnAspThrSerGluGluLeuLeuArgTrpSerThrValProValProPro----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          68 rArgAlalleSerProTrpArgTyrGluLeuAspArgAspLeuAsnArgLeuProGlnAs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ------ProHis------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Halenbeck, Robert F.
APPLICANT: Taylor, Eric W.
APPLICANT: Wang, Alice W.
APPLICANT: Gasipit, Clayton L.
ITLE OF INVENTION: Secreted Mac-2-Binding Glycoprotein NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cetus Oncology Corporation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2285
44
8
42
78
                                                                                                                                                                 Length:
Matches:
Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                        US-10-037-591A-2 (1-161) x US-08-316-714-9 (1-2285)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  133 sGlyThrHisLysGlyTyrCysLeuGluArgArg 144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        445 TCCAGCATGATGGGGCCTGATCCTTGCCCGAAGG 412
                                                                                                                                                                                                                                          Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                pLeuTyrHisAlaArgCysLeuCys------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE: Cetus Oncology Corporation
STREET: 1400 Fifty-Third Street
CITY: Emeryville
                                                                                                                                                                                                                                                           Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-473-673-9/c
; Sequence 9, Application US/08473673
; Patent No. 6069127
             LENGTH: 2285 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         : Koths, Kirston E.
                                                                                                                                                               4.45
93.50
30.23%
25.58%
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                   Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STATE: CA
COUNTRY: US
ZIP: 94608
                                                                                                                                                                                                                                                                                                                                                                                                                                        -----E
                                                                                                                                          Aliqnment Scores:
                                                                                                          US-08-316-714-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT
                                                                                                                                                                                                                                     Query Match:
DB:
                                                                                                                                                                  ..
Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    582
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 10
                                                                                                                                                                                   Score:
                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
```

```
446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              T-----TCCACAGGCCTGGCCTCAGGTTG 713
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                113 nSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArgArgProCysHisGlyGluLy 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              712 GCAGTCAGGATGACCGTGTGGCCACAGAAGCCCAGGGCGTCCTCGCCCTGCACATTCACG 653
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             68 rArgAlalleSerProTrpArgTyrGluLeuAspArgAspLeuAsnArgLeuFroGlnAs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     52 ....-AsnArgHisProGluSerCysArgAlaSerGluAspGlyProLeuAsnSe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        529 CTCTCGTGCCTGCAGTTGCTCTTCAGCCAGCCCAGGGACTTGCAGTCGGCCA-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          --GIGAGGCCTCGGTTCCCGTGCACTGGACCTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               652 CTGATGGACAGGTCGCAGCCCCGCTGGCTGTCAAAGATCTGGCCAAGGGCCTCCGAGA--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -----GGTCCAGGGTGTGGGTGCTCCTGGTTTCATTGGTGCAGACCACCACCAGCGTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  27 sGlyGlnAspThrSerGluGluLeuLeuArgTrpSerThrValProValProPro---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2285
44
8
42
78
9
                                                        SOFTWARE STATEM.
SOFTWARE PATENTIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/473,673
FILING DATE: 07-JUN-1995
CLASSIFICATION 1435
PRIOR APPLICATION NUMBER: US/08/316,714
APPLICATION NUMBER: US/08/316,714
APPLICATION NUMBER: US/08/316,714
APPLICATION NUMBER: US/07/961,404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-037-591A-2 (1-161) x US-08-473-673-9 (1-2285)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           88 pLeuTyrHisAlaArgCysLeuCys-----
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                       REFERENCE/DOCKET NUMBER: 2595.1
                                                                                                                                                                                                                                                                                                                                                        TELECOMMUNICATION INFORMATION:
TELEPHONE: (510) 420-3152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                  (510) 420-3152
(510) 658-5470
                                                                                                                                                                                                                                                                                               NAME: Goldman, Kenneth M
REGISTRATION NUMBER: 34,
                                                                                                                                                                                                                                                                                                                                                                                                                                       INFORMATION FOR SEQ ID NO: 9
SEQUENCE CHARACTERISTICS:
LENGTH: 2285 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4.45
93.50
30.23%
25.58%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-473-673-9
                                                                                                                                                                                                                                                                                                                                                                                                                            TELEX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              739
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
```

à

```
151 AACTGGAATACTAGTICTAAAAGGGCTTCAGAC-----TACTACAATAGATCTACG 201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       92 AlaArgCysLeuCysProHisCysValSerLeuGlnThrGlySerHisMetAspProArg 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                52 AsnargHisProGluSerCysArgAlaSerGluAspGlyProLeuAsnSerArgAlaIle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              72 SerProTrpArgTyrGluLeuAspArgAspLeuAsnArgLeuProGlnAspLeuTyrHis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     112 GlyAsnSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArgArgProCys----
                 au, Jacques
PURIFIED MAMMALIAN CTLA-8 ANTIGENS AND
RELATED REAGENTS
                                                                                                                                                                                                                                                                                                                       Patentin Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-037-591A-2 (1-161) x US-08-432-994A-3 (1-456)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          262 GCAAAGIGTCGCTACTTAGGATGTGTTAATGCTGAT---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length:
                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/250,846
FILING DATE: 27-MAY-1994
PRIOR APPLICATION NUMBER: US 08/177,747
FILING DATE: 05-JAN-1994
PRIOR APPLICATION NUMBER: US 08/077,203
APPLICATION NUMBER: US 08/077,203
FILING DATE: 14-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Ching, Edwin P.
                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/432,994A
FILING DATE: 02-MAY-1995
                                                                                                                                                                                                                                                         MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                E: DNAX Research Inst
901 California Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         34,090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-852-9196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: Ching, Edwin P. REGISTRATION NUMBER: 34, REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     : 456 base pairs
nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          415-496-1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO
                                                                                                                                                                                                                   ZIP: 94304-1104
COMPUTER READABLE FORM:
                     Banchereau,
                               TITLE OF INVENTION: PU
TITLE OF INVENTION: RE
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
                                                                                                                                                         Palo Alto : California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Linear
                                                                                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: nucleic
STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: li
MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEPHONE:
                                                                                                                ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-08-432-994A-3
                                                                                                                                                                                                                                                                                                                             SOFTWARE:
                                                                                                                                                                                                    COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH:
                                                                                                                                                                            STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ά
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Qγ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 577 GGAACCAGGITICIGATCCACIGGAACCGGIGCACGCCTICIGGACACAGGCAGGAAGGT 518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 340 GCCGCAGCTGCCGCCGCCACGCCATGGAGA-----CTCGCCGGACGCGTGGGTCGACT 287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           46 LeuGluProAlaArgProAsnArgHisProGluSerCysArgAlaSerGluAspGlyPro 65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          66 LeuAsnSerArgAlaIleSer-ProTrpArgTyrGluLeuAspArgAspLeuAsnArgLe 85
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -----SerLysGlyGlnAspThrSerGlu---Glu 34
                                                                                                                                                                                               TITLE OF INVENTION: 27411, A No. 6465230e1 Human PGP Synthase FILE REFERENCE: 35800/209284
CURRENT APPLICATION NUMBER: 05/09/795,691
CURRENT FILING DATE: 2001-03-28
PRIOR APPLICATION NUMBER: 60/185,517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2686
32
7 .
32
31 .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches:
Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             13 GlyThrHisThrTyrSerHisTrpProSerCysCysPro---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-10-037-591A-2 (1-161) x US-09-795-691-1 (1-2686)
                                      445 TCCAGCATGATGGGGCCTGATCCTTGCCCGAAGG 412
133 sGlyThrHisLysGlyTyrCysLeuGluArgArg 144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LeuLeuArgTrpSerThrValProValPro-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels:
                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: 60/185,517
PRIOR FILING DATE: 2000-02-28
NUMBER OF SEQ ID NOS: 3
SOFTWARE: FastSEQ for Windows Version 4.0
EED ID NO 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 3, Application US/08432994A Patent No. 6274711 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; LOCATION: (1)...(2686)
; OTHER INFORMATION: n - A,T,C or G
US-09-795-691-1
                                                                                                                   Sequence 1, Application US/09795691
Patent No. 6465230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Lebecque, Serge J.E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rouvier, Eric
Fossiez, Francois
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Golstein, Pierre
                                                                                                                                                             GENERAL INFORMATION:
APPLICANT: Meyers, Rachel
TITLE OF INVENTION: 27411.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (315)...(1985)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCCT 283
                                                                              RESULT 11
US-09-795-691-1/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           85 uPro 86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: CDS
LOCATION: (31)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-08-432-994A-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 12
```

```
Glannotti, Johnn
Golden'Fleet, Margaret
WENTION: Human CTLA-8 and Uses of CTLA-8-Related Proteins
                                                                                                                                                                                                                                                                                            AlaArgCysLeuCysProHisCysValSerLeuGlnThrGlySerHisMetAspProArg 111
                                                                                                                   72 SerProTrpArgTyrGluLeuAspArgAspLeuAsnArgLeuProGlnAspLeuTyrHis 91
                                          52 AsnArgHisProGluSerCysArgAlaSerGluAspGlyProLeuAsnSerArgAlaIle 71
                                                                                                                                                                                                                                                                                                                                         130 -----HisGlyGluLysGlyThrHisLysGlyTyrCysLeuGluArgArgLeuTyrArg
                                                                            151 AACTGGAATACCAGTTCTAAAAGGGCTTCAGAC-----TACTACAATAGATCTACG
                                                                                                                                                                                                                                                                   GlyAsnSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArgArgProCys----
                                                                                                                                                                                                                                                                                                                                                                                352 GTGCGCAAAGGCCATCAACCCTGCCCTAATTCATTTAGGCTAGAGAAGATGCTA----
                                                                                                                                                                                                                              262 GCAAAGTGTCGCTACTTAGGATGTGTTAATGCTGAT-------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                     148 ValSerLeuAlaCysValCysValArgProArgVal 159
                                                                                                                                                                                                                                                                                                                                                                                                                                            406 GTGACTGTAGGCTGCATGCTTACTCCCATTGTT 441
     US-10-037-591A-2 (1-161) x US-09-034-810-5 (1-459)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 E: Genetics Institute, Inc.
87 CambridgePark Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/685,239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     KESUL: 008-685-239-5
Sequence 5, Application US/08685239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Jacobs, Kenneth
Kelleher, Kerry
Carlin, McKeough
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEPHONE: (617) 498-8224
TELEFAX: (617) 876-5851
INFORMATION FOR SEQ ID NO: 5: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATTORNEY/AGENT INFORMATION:
NAME: Brown, Scott A.
REGISTRATION NUMBER: 32,7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3oldman, Samuel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               : Pittman, Debra
: Mi, Sha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Weben, Steven
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           459 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: HUNDER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cambridge
Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT
                                                                                                                                                                                                                                                                     112
                                                                                                                                                                                           92
                                                                            q
                                                                                                                   οy
                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                     δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                          Neben, Steven
Glannotti, JoAnn
Golden Fleet, Margaret
VENTION: Human CTLA-8 and Uses of CTLA-8-Related Proteins
                                 130 -----HisGlyGluLysGlyThrHisLysGlyTyrCysLeuGluArgArgLeuTyrArg 147
                                                                      352 GIGCGCAAAGGCCATCAACCCTGCCCTAATTCATTTAGGCTAGAGAAGATGCTA---- 405
298 GGGAATGTAGAC-----TACCACATGAACTCAGTCCCTATCCAACAAGAGATTCTAGTG 351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      459
119
119
119
5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length:
Matches:
Conservative:
Mismatches:
                                                                                                           148 ValSerLeuAlaCysValCysValArgProArgVal 159
                                                                                                                                  406 GTGACTGTAGGCTGCACATGCGTTACTCCCATTGTT 441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         E: Genetics Institute, Inc
87 CambridgePark Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US/09/034,810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .
32,724
GI5262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/685,239
FILING DATE:
                                                                                                                                                                                                                        Sequence 5, Application US/09034810 Patent No. 6043344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Brown, Scott A.
REGISTRATION NUMBER: 32,72.
REFERENCE/DOCKET NUMBER: G.
TELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                Jacobs, Kenneth
Kelleher, Kerry
Carlin, McKeough
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEPHONE: (617) 498-8224
TELEFAX: (617) 876-5851
INFORMATION FOR SEQ ID NO: 5:
                                                                                                                                                                                                                                                                                                                                       Goldman, Samuel
Pittman, Debra
Mi, Sha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.589
92.50
44.64%
27.68%
10.16%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        : 459 base pairs
nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                    FITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                linear
                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cambridge
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        02140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY:
                                                                                                                                                                                                      US-09-034-810-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COCATION CS-09-034-810-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match:
DB:
                                                                        셤
                                                                                                           ò
                                                                                                                                              ద
```

ò

```
TITLE OF INVENTION: Human CTLA-8 and Uses of CTLA-8-Related Proteins NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 352 GTGCGCAAAGGGCATCAACCCTGCCCTAATTCATTTAGGCTAGAGAAGATGCTA----- 405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             112 GlyAsnSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArgArgProCys----- 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                298 GGGAATGTAGAC----TACCACATGAACTCAGTCCCTATCCAACAAGAGATTCTAGTG 351
                                                                                                                                                                                                                                                                                                                           151 AACTGGAATACCAGTTCTAAAAGGGCTTCAGAC-----TACTACAATAGATCTACG 201
                                                                                                                                                                                                                                                                                                                                                                                                        92 AlaArgCysLeuCysProHisCysValSerLeuGlnThrGlySerHisMetAspProArg 111
                                                                                                                                                                                                                                                                                    52 AsnArgHisProGluSerCysArgAlaSerGluAspGlyProLeuAsnSerArgAlaIle 71
                                                                                                                                                                                                                                                                                                                                                                   72 SerProTrpArgTyrGluLeuAspArgAspLeuAsnArgLeuProGlnAspLeuTyrHis 91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -----HisGlyGluLysGlyThrHisLysGlyTyrCysLeuGluArgArgLeuTyrArg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     262 GCAAAGTGTCGCTACTTAGGATGTGTTAATGCTGAT------
                                                                                                                        31
19
43
19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/034,810
                                                                                                                                       Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    148 ValSerLeuAlaCysValCysValArgProArgVal 159
                                                                                                                                                                                                                                            US-10-037-591A-2 (1-161) x US-08-685-239-5 (1-459)
                                                                                                   Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE: Genetics Institute, Inc
STREET: 87 CambridgePark Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Neben, Steven
Giannotti, JoAnn
Golden'Fleet, Margaret
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/685,239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 3, Application US/09034810 Patent No. 6043344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Jacobs, Kenneth
Kelleher, Kerry
Carlin, McKeough
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Goldman, Samuel
Pittman, Debra
Mi, Sha
                                                                                               0.589
92.50
44.64%
27.68%
10.16%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STREET: 87 Cambr
CITY: Cambridge
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                       Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    02140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STATE: Ma
COUNTRY:
; NAME/KEY:
; LOCATION:
US-08-685-239-5
                                                                                   Alignment Scores
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-034-810-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT
                                                                                                                                                                                  Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
```

```
118 ACGTGAAGGTCAACCTGAAAGTCATCAACTCCCTT-AGCTCAAAAGCGAGCTCGAGAAGG 176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GATAGATATCCTTCTGTGATCTGGGAGGCACAGTGCCGCCACCAGCGCTGTGTCAACGCT 296
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GlnThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThr 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        123 ValPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGlu 142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCCTCAGATTACCTCAACCGTTCCACTTCACCTGGACTCTGAGCCGCAATGAGGACCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ProLeuAsn-----SerArgAlaIleSerProTrpArgTyrGluLeuAspArgAspLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AsnArgLeuProGlnAspLeuTyrHisAlaArgCysLeuCysProHisCysValSerLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GAG-----GGGAAGTTGGACCACCACATGAATTCTGTTCTCATCCAGCAAGAGATACTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -----AsnArgHisProGluSerCysArgAlaSerGluAspGly
                                                                                                                                                                                                                                                                                                                                                                                                                                  461
36
23
52
23
6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               37 ArgTrpSerThrValProValProProLeuGluProAlaArgPro--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        143 ArgArgLeuTyrArgValSerLeuAlaCysValCysVal 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        399 AAGATGCTG-----GTGGGCGTGGGCTGCACCTGCGTT 431
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-037-591A-2 (1-161) x US-09-034-810-3 (1-461)
                                                                                                                                                                                                                                                                                                                                                                                                                                      Length:
Matches:
                                    NAME: Brown, Scott A.
REGISTRATION NUMBER: 32,724
REFERENCE/DOCKET NUMBER: G15262
TELECOMMUNICATION INFORMATION:
TELEPRA: (617) 498-8224
TELEPRA: (617) 498-8224
INFORMATION FOR SEQ ID NO: 3: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Search completed: May 12, 2003, 02:54:31
Job time : 47 secs
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Brown, Scott A..
                                                                                                                                                                                                                                                                                                                                                                                                                                    0.841
91.00
44.36%
27.07%
                                                                                                                                                                                                   LENGIH: 461 base pairs
                                                                                                                                                                                                                TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                 HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                               MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                      NAME/KEY:
LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                     Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                             US-09-034-810-3
                                                                                                                                                                                                                                                                                                                        FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        297
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   103
```

OM protein

Run on:

Searched:

```
Sequence 155, App
Sequence 155, App
Sequence 155, App
Sequence 155, App
Sequence 15, App
Sequence 17, Appli
Sequence 17, Appli
Sequence 15, App
Sequence 15, App
                                                                                                                                                                                      Sequence 17, Appl
Sequence 17, Appl
Sequence 155, Appl
Sequence 155, Appl
Sequence 3, Applii
Sequence 9, Applii
                                                                                                                                                                                                                                                                                                     Sequence 17,
                                                                                                                                                                                                                                                                                                                         Sequence 17
                                                                                                                                                                                                                                                                                                                                           Sequence
Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 4
Sequence 4
Sequence 4
Sequence 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence (
Sequence (
Sequence (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Seguence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Seguence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 1, Application US/09886404

Sequence 1, Application US/09886404

GENERAL INFORMATION:

APPLICANT: Medlock, Eugene

APPLICANT: Silbiger, Scott M.

APPLICANT: Silbiger, Scott M.

APPLICANT: Bliot, Gary S.

APPLICANT: Jing, Shuqian

TITLE OF INVENTION: IL-17 Like Molecules and Uses Thereof

FILE REFERENCE: 01017/31128B

CURRENT APPLICATION UNMER: US/09/886,404

CURRENT FILING DATE: 2001-06-21

PRIOR APPLICATION NUMBER: 09/810,384

PRIOR FILING DATE: 2001-06-21

PRIOR APPLICATION NUMBER: 60/266,159

PRIOR PAPLICATION NUMBER: 60/266,159

PRIOR PAPLICATION NUMBER: 60/213,125

PRIOR APPLICATION NUMBER: 60/213,125

PRIOR APPLICATION NUMBER: 60/213,125

PRIOR PAPLICATION NUMBER: 60/213,125

PRIOR PAPLICATION NUMBER: 60/213,125

PRIOR PAPLICATION NUMBER: 60/213,125

PRIOR PAPLICATION NUMBER: 5000-06-22

NUMBER OF SEQ ID NOS: 22

SOFTWARE: PATENTIN Ver. 2.0
             US-10-063-616-155
US-10-063-616-155
US-10-063-598-155
US-10-203-185
US-10-203-181-17
US-10-063-599-155
US-10-213-181-17
US-10-063-599-155
US-10-212-912-17
US-10-212-912-17
US-10-213-181-17
US-10-213-181-17
US-10-213-181-17
US-10-213-181-17
US-10-213-181-17
US-10-213-181-17
US-10-063-595-155
                                                                                                                                                                                                                                                                                                                                     US-09-874-503-3
US-10-000-157-3
US-10-036-041-10
US-09-747-259-3
US-10-035-855-10
US-10-176-590-447
US-10-176-738-447
US-10-176-738-447
                                                                                                                                                                                                                                                                                US-09-886-404-9
US-09-854-280-17
US-09-854-208-17
                                                                                                                                                                                                                                                                  US-09-886-404-3
1496
594
                                                                                                                                                                                                                                                                  1013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO 1
LENGTH: 644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-886-404-1
                                                                           Command line parameters:
-MODEL-frame+_D2n.model -DEP-x1h
-MODEL-frame+_D2n.model -DEP-x1h
-MODEL-frame+_D2n.model -DEP-x1h
-WOODEL-frame+_D2n.model -DEP-x1h
-DB-Published_Applications_NA -OFMT-fastap -SUFFIX-P2n.rnpb -MINMATCH=0.1
-LOOPCL_0 -LOOPEXT-0 -UNITS-bits -START-1 -END--1 -MATRIX=blosum62
-TRANS=human40.cdi -LIST-45 -DOCALIGN=200 -THR_SCORE-pct -THR_MATRIX=0.0
-THR_MIN-0 -ALIGN=15 -MODE-LGCAL -OUTFMT-pcb -NORM-ext -HEAPSIZE=500 -NINLEN-0
-MAXLEN-2000000000 -USER-US10037591_@CGN_1_1_91_@trunat_06052003_123155_22331
-NCPU-6 -ICPU-3 -NO_XLPXY -NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -LONGLOG
-FEGAPEXT-7 -XGAPOP=10 -YGAPEXT=0.5 -DELDP-6 -DELEXT=7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 1, Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 5, Appli
Sequence 5, Appli
Sequence 155, App
                                                                                                                                               (without alignments)
2041.587 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                      910
1 MYQVVAFLAMVMGTHTYSHW......ERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1: /cgn2_c/ptodata/2/pubpna/USO7_PUBCOMB.seq:*
2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/USO6_NEW_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/USO6_NEW_PUB.seq:*
5: /cgn2_6/ptodata/2/pubpna/USO6_PUBCOMB.seq:*
6: /cgn2_6/ptodata/2/pubpna/USO7_NEW_PUB.seq:*
7: /cgn2_6/ptodata/2/pubpna/USO7_NEW_PUB.seq:*
8: /cgn2_6/ptodata/2/pubpna/USO8_PUBCOMB.seq:*
9: /cgn2_6/ptodata/2/pubpna/USO8_PUBCOMB.seq:*
10: /cgn2_6/ptodata/2/pubpna/USO9_PUBCOMB.seq:*
110: /cgn2_6/ptodata/2/pubpna/USO9_PUBCOMB.seq:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*/cgn2_6/ptodata/2/pubpna/US10_UBUBCOMB.seq:*/cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*/cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*/cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*
                                                                                                                         May 12, 2003, 02:02:59 ; Search time 98 Seconds
             GenCore version 5.1.4_p5_4578
Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                       nucleic search, using frame_plus_p2n model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-886-404-1
US-09-874-503-5
US-10-000-157-5
US-10-063-547-155
                                                                                                                                                                                                                                                                                                                                                                                                                                 of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                           783854 seqs, 621352466 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Published_Applications_NA:*
                                                                                                                                                                                                                                                                                              Xgapop 10.0 , Xgapext
Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
Delop 6.0 , Delext
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                    US-10-037-591A-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query
Match Length DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 644
1320
1320
1320
                                                                                                                                                                                                                                                                              BLOSUM62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0
98.7
98.7
98.7
                                                                                                                                                                                                                      Perfect score:
Sequence:
                                                                                                                                                                                                                                                                            Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                898
898
898
                                                                                                                                                                                                                                                                                                                                                                                                                                 rotal number
```

Database :

Result No.

, Appl Appli , Appl

```
PRIOR
PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                   121 GlnThrvalPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCys 140
                                                                                                                                                                                                                                                                          278
                                                                                                                                                                                                                                                                                                                                                                                                                                            399 GACTTGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTC 458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      101 SerLeuGlnThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsn 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  141 LeuGluArgArgLeuTyrArgValSerLeuAlaCysValCysValArgProArgValMet 160
                                                                                                                                                                                                                                                40
                                                                                                                                                                                                                                             AspLeuAsnArgLeuProGlnAspLeuTyrHisAlaArgCysLeuCysProHisCysVal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      459 AGCCTACAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MetTyrGlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrp
                                                                                                                                                                                                      SerGluAspGlyProLeuAsnSerArgAlaIleSerProTrpArgTyrGluLeuAspArg
                                                                  644
000
000
000
                                                                                          Conservative:
Mismatches:
Indels:
                                                                                                                                                              US-10-037-591A-2 (1-161) x US-09-886-404-1 (1-644)
                                                                  Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 5, Application US/09874503
Patent No. US20020177188A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Godowski, Paul J.
Grimaldi, J.Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Starovasnik, Melissa A.
VanLookeren, Menno
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Li, Hanzhong
Hillan, Kenneth J.
Hymowitz, Sarah G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Watanabe, Colin K
Williams, P. Mickey
Wood, William I.
                                                                            910.00%
100.00%
100.00%
                                                                  8.89e-94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gurney, Austin L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: Chen, Jian
APPLICANT: Filvaroff,Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /andlen, Richard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Fong, Sherman
Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Yansura,Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Jumas, Daniel
          ; LOCATION: (159)..(641)
US-09-886-404-1
                                                                                    Percent Similarity:
Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gly 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGC 641
NAME/KEY: CDS
                                                     Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-874-503-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  639
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       191
                                                                                                                                                                                                                                                                                                                                                            61
                                                                                                                                                                                                                                                                                                                                                                                                                  81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                      ò
```

```
TITLE OF INVERFICIO. 11.17 | MONOLAGOUS POLYPEPTIDES AND THERAPPUTIC USES THEREOR CURRENT APPLICATION NUMBER: US /02/9741.503

CURRENT APPLICATION NUMBER: US /02/9741.503

CURRENT APPLICATION NUMBER: US /02/9741.503

PRICOR PLINKS DATE: 2000-10-26

PRICOR PLINKS DATE: 2000-10-26

PRICOR PLINKS DATE: 2000-10-26

PRICOR PLINKS DATE: 2000-10-27

PRICOR PLINKS DATE: 2000-10-20

PRICOR PLINKS DATE: 3000-10-20

PRICOR PLINKS DATE: 3000-10-20

PRICOR PLINKS DATE: 3000-10-30

PRICO
```

ò

```
APPLICATION NUMBER: PCT/US99/05028 FILING DATE: 1999-03-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 1999-05-14
APPLICATION NUMBER: PCT/US99/31274
FILING DATE: 1999-12-30
APPLICATION NUMBER: PCT/US00/04341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: PCT/US99/10733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: PCT/US00/07532
FILING DATE: 2000-03-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: PCT/US00/15264
FILING DATE: 2000-06-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: PCT/US00/05601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: PCT/US00/05841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: PCT/US00/30873
              CURRENT APPLICATION NUMBER: 60/095579
PRIOR APPLICATION NUMBER: 60/095579
PRIOR APPLICATION NUMBER: 60/13022
PRIOR PELING DATE: 1998-05-12
PRIOR PELING DATE: 1998-06-13
PRIOR PLING DATE: 1998-06-28
PRIOR PLING DATE: 1998-04-26
PRIOR PLING DATE: 1998-04-26
PRIOR PLING DATE: 1998-04-26
PRIOR PLING DATE: 1998-04-26
PRIOR PLING DATE: 1999-06-19
PRIOR PLING DATE: 1999-06-12
PRIOR PLING DATE: 2000-10-12
PRIOR PLING DATE: 2000-10-24
PRIOR PLING DATE: 2000-10-24
PRIOR PLING DATE: 2001-10-24
PRIOR PLING DATE: 2001-10-26
PRIOR APPLICATION NUMBER: 09/814280
PRIOR PLING DATE: 2001-10-26
PRIOR APPLICATION NUMBER: 09/814280
PRIOR PLING DATE: 2001-06-25
PRIOR PLING DATE: 2001-06-26
PRIOR PLING DATE: 2001-06-37
PRIOR PRIOR DATE: 2001-06-37
PRIOR PRIING DATE: 2001-06-37
PRIOR PRIING DATE: 1999-03-08
PRIOR PLING DATE: 2001-03-01
PRIOR PRIING DATE: 1999-03-08
PRIOR PLING DATE: 1999-03-08
PRIOR PLING DATE: 2000-03-01
PRIOR PRIING DATE: 2000-03-01
PRIOR PRIING DATE: 2000-03-01
PRIOR PRIING DATE: 2000-03-01
PRIOR PRINCATION NUMBER: PCT/US99/01
PRIOR PREDECTION NUMBER: PCT/US99/01
PRIOR PREDECTI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        000-08-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF FILE REFERENCE: P1381R1C1P4(US)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ValPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGlu 142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               143 ArgArgLeuTyrArgValSerLeuAlaCysValCysValArgProArgValMetGly 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CysCysProSerLysGlyGlnAspThrSerGluGluLeuLeuArgTrpSerThrValPro
                                                                                                                                                                                                                                                                                                                                                                                                                                          AspGlyProLeuAsnSerArgAlaIleSerProTrpArgTyrGluLeuAspArgAspLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      103 GlnThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThr
                                                                                                                                                                                     Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                      US-10-037-591A-2 (1-161) x US-09-874-503-5 (1-1320)
                                                                                                                                             Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fong, Sherman
Goddard, Audrey
Godowski, Paul L.
Grimaldi, J.Christopher
Gurney, Austin
Li, Hanzhong
Hillan, Kenneth J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 5, Application US/10000157
Publication No. US20020182673A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Starovasnik, Melissa
VanLookeren, Menno
Vandlen, Richard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                tanabe, Colin
lliams, P.Mickey
                                                                                                                                             .85e-92
                                                                                                                                                              898.00
100.008
100.008
98.688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Chen, Jian
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hymowitz, Sarah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Yansura, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Wood, William
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 umas, Daniel
                                      ; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-874-503-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Williams
                                                                                                                                                                                   Percent Similarity:
Best Local Similarity:
                                                                                                                       Alignment Scores:
Pred. No.:
SEQ ID NO 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT
                                                                                                                                                                                                                            Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         493
                                                                                                                                                                                                                                                                                                                                                                                                                  23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT
```

á 셤 us-10-037-591a-2.p2n.rnpb

```
Gurney, Austin
                                                                                                                                                                                                        Sapien
                                                                                                                                                                                                                                                                                    Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                      TYPE: DNA
CRGANISM: HOMO
US-10-063-547-155
                                                                                                                                                                                                                                               Alignment Scores:
                                                                                                                                                                            LENGTH: 1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-747-259-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                              Query Match:
                                                                                                                                                                                                                                                            Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 5
                                                                                                                                                                                                                                                                          Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 合
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     pp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        433 GIGCCICCCCIAGAGCCIGCIAGGCCCAACCGCCACCCAGAGICCIGIAGGGCCAGIGAA 492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             103 GlnThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThr 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    143 ArgArgLeuTyrArgValSerLeuAlaCysValCysValArgProArgValMetGly 161
                                                                                                                                                                                                                                                                                                                                                                                                                                      3 GlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrpProSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               43 ValProProLeuGluProAlaArgProAsnArgHisProGluSerCysArgAlaSerGlu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    493 GATGGACCCCTCAACAGCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTG
                                                                                                                                                                                                                                                                                                             1320
159
0
0
0
                                                                                                                                                                                                                                                                                                                                         Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                            US-10-037-591A-2 (1-161) x US-10-000-157-5 (1-1320)
                                                                                                                                                                                                                                                                                                                Length:
Matches:
PRIOR FILING DATE: 2000-11-10
PRIOR APPLICATION WUMBER: PCT/US00/32678
PRIOR FILING DATE: 2000-12-01
PRIOR FILING DATE: 2000-12-02
PRIOR APPLICATION NUMBER: PCT/US00/34956
PRIOR FILING DATE: 2001-12-20
PRIOR PLING DATE: 2001-02-28
PRIOR FILING DATE: 2001-02-28
PRIOR PLING DATE: 2001-06-01
PRIOR APPLICATION NUMBER: PCT/US01/19692
PRIOR FILING DATE: 2001-06-01
PRIOR PLING DATE: 2001-06-10
PRIOR PLING DATE: 2001-06-20
PRIOR PLING DATE: 2001-06-20
PRIOR PLING DATE: 2001-06-20
PRIOR PLING DATE: 2001-06-29
PRIOR PLING DATE: 2001-06-29
PRIOR PLING DATE: 2001-06-29
PRIOR PLING DATE: 2001-06-29
PRIOR PLING DATE: 2001-06-39
NUMBER OF SEQ ID NOS: 39
                                                                                                                                                                                                                                                                                                                                                                                   Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 155, Application US/10063547; Publication No. US20020182638A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                            898.00
100.00%
100.00%
98.68%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Eaton, Dan L.
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary I
APPLICANT: Goddard, Audrey
                                                                                                                                                                                                                              LENGTH: 1320
TYPE: DNA
CORGANISM: Homo Sapien
US-10-000-157-5
                                                                                                                                                                                                                                                                                                                            Score:
Percent Similarity:
Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-063-547-155
                                                                                                                                                                                                                                                                                                     Alignment Scores
                                                                                                                                                                                                                                                                                                                   ..
Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
```

```
APPLICANT: MGOG/William I.

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC CURRENT PRINCE: P3230R1C1
CURRENT APPLICATION NUMBER: US/10/063,547
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 170
SEQ ID NO 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ValPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGlu 142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GlnThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThr 122
                                                                                                                                                                                                                                                                                                                                                                                         372
                                                                                                                                                                                                                                                                                                                                                                                                                                               432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           82
                                                                                                                                                                                                                                                                                                                                                              22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 143 ArgArgLeuTyrArgValSerLeuAlaCysValCysValArgProArgValMetGly 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AspGlyProLeuAsnSerArgAlaIleSerProTrpArgTyrGluLeuAspArgAspLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1320
159
0
0
0
                                                                                                                                                                                                                                        Length:
Matches:
Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                     US-10-037-591A-2 (1-161) x US-10-063-547-155 (1-1320)
                                                                                                                                                                                                                                                                                               Indels:
                                                                                                                                                                                                                                                                                                            Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; Sequence 5, Application US/09747259
; Publication No. US20030008815A1
; GENERAL INFORMATION:
Grimaldi, Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Godowski, Paul
Grimaldi, Christopher
                                                                                                                                                                                                                                        4.85e-92
898.00
100.00%
100.00%
98.68%
           APPLICANT: Gurney, Austin L. APPLICANT: Watanabe, Colin K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Chen, Jian
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Fong, Sherman
Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Genentech, Inc.
```

S

```
672
                                                                                                                                                                                                                                                                        TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME
                                                                                                                                                                           GlnThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThr 122
                                                                                                                                                                                                                                                    123 ValPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGlu 142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  . 29
                                                                                                                                                                                                                                                                                                                            3 GlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrpProSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23 CysCysProSerLysGlyGlnAspThrSerGluGluLeuLeuArgTrpSerThrValPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      43 ValProProLeuGluProAlaArgProAsnArgHisProGluSerCysArgAlaSerGlu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1320
159
0
0
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Palm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-037-591A-2 (1-161) x US-10-063-616-155 (1-1320)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2002-05-03
oved - See File Wrapper
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/10/063,616 CURRENT FILING DATE: 2002-05-03
                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-063-616-155
Sequence 155, Application US/10063616
Publication No. US20030013855A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4.85e-92
898.00
100.00%
100.00%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Eaton, Dan L. APPLICANT: Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gerritsen, Mary
Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Prior Application removed
NUMBER OF SEQ ID NOS: 170
SEQ ID NO 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILE REFERENCE: P3230R1C1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ношо
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-063-616-155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ..
9
                                                                                                                                                                                                                                                                                          673
                                                                                                                                                                           103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pred.
                                                         g
                                                                                                   ò
                                                                                                                                   q
                                                                                                                                                                           Ω
                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                    õ
                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                              δ
                                                                                                                                                                                                                                                                                                                                                                  pp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                       ### PAPLICANT: WOOD, WILLIAMS

### PAPLICANTON NUMBER: US/09/747, 259

### PARLOR APPLICATION NUMBER: US/09/311, 832

### PARLOR APPLICANTON NUMBER: US/09/312, 096

### PARLOR APPLICANTON NUMBER: US/09/31274

### PARLOR PAPLICANTON NUMBER: PCT/US/09/031274

### PARLOR PAPLICANTON NUMBER: PCT/US/09/0341

### PARLOR PAPLICANTON NUMBER: PCT/US/09/0341

### PARLOR PAPLICANTON NUMBER: PCT/US/09/0341

### PARLOR PAPLICANTON NUMBER: PCT/US/09/05841

### PARLOR PAPLICANTON NUMBER: PCT/US/09/0532

### PRIOR PAPLICANTON NUMBER: PCT/US/09/0532

### PRIOR PAPLICANTON NUMBER: PCT/US/09/0532

### PRIOR PAPLICANTON NUMBER: PCT/US/09/053328

### PRIOR PAPLICANTON NUMBER: PCT/US/09/053328

### PRIOR PAPLICANTON NUMBER: US/09/242,837

### PRIOR PAPLICANTON NUMBER: PCT/US/09/3867

#### PRIOR PAPL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ValProProLeuGluProAlaArgProAsnArgHisProGluSerCysArgAlaSerGlu 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrpProSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          23 CysCysProSerLysGlyGlnAspThrSerGluGluLeuLeuArgTrpSerThrValPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1320
159
0
0
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length:
Matches:
Conservative:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-037-591A-2 (1-161) x US-09-747-259-5 (1-1320)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps:
                                                     VanLookeren, Menno
Vandlen, Richard
                                                                                           Watanabe, Colin
Williams, P. Mickey
Wood, William
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       85e-92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         898.00
100.00%
100.00%
98.68%
Li, Hanzhong
Hillan, Kenneth
                                       Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA
ORGANISM: Homo Sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-747-259-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID NO 5
                                                                                                             APPLICANT:
APPLICANT:
                                                     APPLICANT
                                                                         APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                m
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ద
```

ò

POLYPEPTIDES AND NUCLEIC Palm 1320 1320 159 159 159 159 159 159 159 15	732 D D D D D D D D D D D D D D D D D D D	732 D D D D D D D D D D D D D D D D D D D	732 EBIC
J. TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ING THE SAME 0/063,502 File Wrapper or Palm Length: 1320 Matches: 159 Conservative: 0 Mismatches: 0 Mismatches: 0	J. TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ING THE SAME 0/063,502 File Wrapper or Palm Length: 1320 Matches: 159 Conservative: 0 Mismatches: 0 Indels: 0 Indels: 0 Gaps: 0 3-502-155 (1-1320)	15.02 J. TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ING THE SAME 0/063,502 File Wrapper or Palm. Length: 1320 Mismatches: 0 Mismatches: 0 Mismatches: 0 Mismatches: 0 Indels: 0	TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ING THE SAME 0/063,502 File Wrapper or Palm. Length: 1320 Mismatches: 0 Indels: 0 In
TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ING THE SAME 0/063,502 File Wrapper or Palm File Wrapper or Palm Matches: 159 Conservative: 0 Mismatches: 0	TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ING THE SAME 0/063,502 File Wrapper or Palm Length: 1320 Matches: 0 Mismatches: 0 Indels: 0 Indels: 0 Gaps: 0 Gaps: 0	J. TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ING THE SAME 0/063,502 File Wrapper or Palm Length: 1320 Matches: 159 Conservative: 0 Mismatches: 0 Indels: 0 Gaps: 0 1.320 Indels: 0 Indels: 0	J. TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ING THE SAME 0/063,502 File Wrapper or Palm Ength: 1320 Matches: 159 Conservative: 0 Indels: 0 Gaps: 0 1.502-1.55 (1-1320) AlMetGlyThrHisThrTyrSerHisTrpProSer 22
50/063,502	R: us/10/063,502 2-05-01 - See File Wrapper or Palm See	File Wrapper or Palm	File Wrapper or Palm
Length: 1320 Matches: 159 Conservative: 0 Mismatches: 0		22 .372 42 43	22 .372 42 43 62 62
		22 372 42 43	22 372 42 43 62 62

	'n	103	GlnThrGlySerHi	sMetAspProArgG	lyAsnSerGluLeuLeuTyrHisAsnGln	hr 122
	qq	613	CAGACAGGCTCCCA			 CT 672
	oy Op	123	ValPheTyrArgAr 	gProCysHisGlyG	ValPheTyrargArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGlu 	31u 142
	Oy Db	143	ArgArgLeuTyrAr 	gValSerLeuAlaC; 	ArgArgLeuTyrArgValSerLeuAlaCysValCysValArgProArgValMetGly 	161
	RESULT	6 8				
	us-10- ; Sequ	10-063- equence	-518-155 e 155, Applicat tion No. US2003	tion US/1006351	US-10-063-518-155 ; Sequence 155, Application US/10063518 : Publication No. US20030049735Al	
	GENI	SRAL	INFORMATION: ANT: Eaton, Dan	.i.		
	; APF	PLICA	ANT: Filvarott ANT: Gerritsen ANT: Goddard A	:,Ellen h,Mary E. udrev		
	; APE	PLICA	ANT: Godowski, ANT: Grimaldi,	Paul J. Christopher J.		
	; API	PLICA	ANT: Gurney, Au ANT: Watanabe,	ostin L. Colin K.		
	API	PLIC?	ANT: WOOD,Will OF INVENTION: S OF INVENTION:	Liam I. SECRETED AND TR. ACIDS ENCODING	ANSMEMBRANE POLYPEPTIDES AND	NUCLEIC
	FIL	CE RE	EFERENCE: P3230 T APPLICATION N	ORICI UMBER: US/10/0	63,518	
) CUI	RRENJ	T FILING DATE: Application rem	2002-05-01 noved - See Fil	e Wrapper or Palm	
	; SEO	MBER ID N	OF SEQ ID NOS: NO 155	: 170		
	; LE ; TN ; OI US-10	LENGTH TYPE: ORGANI 0-063-	LENGTH: 1320 TYPE: DNA ORGANISM: HOMO Sapie 10-063-518-155	ien	:	
	Aliqn	nent	iqnment Scores:			
	Pred. No Score: Percent Best Loc	No.:	Pred. No.: Score: Percent Similarity: Best Local Similarity:	4.85e-92 898.00 100.00% 100.00%	Length: 1320 Matches: 159 Conservative: 0 Mismatches: 0	
:	Query Match DB:	Mato	ch:	98.68% 9		
	US-10	-037	-591A-2 (1-16	1) x US-10-063-5	18-155 (1-1320)	
	oy 4	£ .		neLeuAlaMetValM	GinValValalaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrpProSer 	Ser 22
	3 8	213		selvelasoles	recommendations in the series of the series	42
	유	373		AAGGCAGGACACCT		4
	οy	43		luProAlaArgProA	ValproProLeuGluProAlaargProAsnArgHisProGluSerCysArgAlaSerGlu	31u 62
	qq	433		AGCCTGCTAGGCCCA	ACCGCCACCAGAGTCCTGTAGGGCCAGT	3AA 492
	ΟŸ	63		snSerArgAlaIleS	AspGlyProLeuAsnSerArgAlaIleSerProTrpArgTyrGluLeuAspArgAspLeu	Leu 82
	qq	493		ACAGCAGGCCATCT	ccccrecagarareagrregacagaga	
	δδ	0		InAspLeuTyrHisA	AsnArgLeuDroGlnAspLeuTyrHisAlaArgCysLeuCysProHisCysValSerLeu 	12
	ор	553		aggacctgtaccacg	GCCGTTGCCTGTGCCCGCACTGCGTCAGG	6.1
	ΟŊ	103		isMetAspProArgG	GlnThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThr 	12
	Db	613		ACATGGACCCCGGG	GCAACTCGGAGCTGCTCTACCACAACCAC	ACT 672

```
Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Alignment Scores:
Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO 155
                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: DNA
                                                RESULT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score:
                         qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Dp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δŷ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Óγ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     δy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δ
                                                                                                                                          APPLICANT: Eaton, Dan L.
APPLICANT: Eaton, Dan L.
APPLICANT: Eliven, Mary E.
APPLICANT: Gerritgen, Mary E.
APPLICANT: Godowski, Paul J.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Watanabe, Colin K.
CURRENT APPLICATION NUMBER: US/10/063,598
ValPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGlu 142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3 GlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrpProSer 22
                                           Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 170
SEQ ID NO 155
                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-037-591A-2 (1-161) x US-10-063-598-155 (1-1320)
                                                                                                                                                                                                                                                                                                                                                                                                        Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps:
                                                                                                            ; Sequence 155, Application US/10063598; Publication No. US20030050462A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                 4.85e-92
898.00
100.00%
100.00%
                                                                                                                                                                                                                                                                                                                                                           ; ORGANISM: Homo Sapien
US-10-063-598-155
                                                                                                                                                                                                                                                                                                                                                                                                                         Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                 US-10-063-598-155
                                                                                                                                                                                                                                                                                                                                                                                            Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    673
                                                                                       RESULT 9
                                                                                                                                                                                                                                                                                                                                                                                                                   Score:
                                                               g
 ð
                   셤
                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
```

```
APPLICANT: Eaton, Dan L.
APPLICANT: Eaton, Dan L.
APPLICANT: Ellvaroff, Ellen
APPLICANT: Gerritaen, Mary E.
APPLICANT: Gerritaen, Mary E.
APPLICANT: Godowski, Paul J.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimmald, Christopher J.
APPLICANT: Grimmald, Christopher J.
APPLICANT: Grimmald, Christopher J.
APPLICANT: Watenabe, Colin K.
APPLICATION NUMBER: US 10/006, 867
PRIOR FILING DATE: 2000-08-24
PRIOR FILING DATE: 1999-08-25
PRIOR FILING DATE: 1999-08-25
PRIOR FILING DATE: 1999-06-06
PRIOR FILING DATE: 1999-06-06
PRIOR FILING DATE: 1999-06-06
PRIOR FILING DATE: 1998-08-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AsnArgLeuProGlnAspLeuTyrHisAlaArgCysLeuCysProHisCysValSerLeu 102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GlnThrGlySerHisMetaspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThr 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               82
3 GlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrpProSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           313 CAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACCTACAGCCACTGGCCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   43 ValProProLeuGluProAlaArgProAsnArgHisProGluSerCysArgAlaSerGlu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1320
159
0
0
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-037-591A-2 (1-161) x US-10-227-693-155 (1-1320)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps:
                                                                                                               US-10-227-693-155
; Sequence 155, Application US/10227693
; Publication No. US20030050465A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4.85e-92
898.00
100.00%
100.00%
98.68%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; ORGANISM: Homo Sapien
US-10-227-693-155
```

요 ö g ò

```
AsnArgLeuProGlnAspLeuTyrHisAlaArgCysLeuCysProHisCysValSerLeu 102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GlnThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThr 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACCACAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CysCysProSerLysGlyGlnAspThrSerGluGluLeuLeuArgTrpSerThrValPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length:
Matches:
Conservative:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-037-591A-2 (1-161) x US-09-908-827-5 (1-1320)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches:
                              PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1999-03-08
PRIOR FILING DATE: 1999-03-08
PRIOR PLING DATE: 1999-05-14
PRIOR PLING DATE: 1999-05-14
PRIOR PLING DATE: 1999-12-30
PRIOR PLING DATE: 1999-12-30
PRIOR PLING DATE: 2000-02-18
PRIOR PLING DATE: 2000-02-18
PRIOR PLING DATE: 2000-03-01
PRIOR PLING DATE: 2000-03-01
PRIOR PRILING DATE: 2000-03-01
PRIOR PLING DATE: 2000-03-01
PRIOR PLING DATE: 2000-03-02
PRIOR PLING DATE: 2000-03-02
PRIOR PLING DATE: 2000-03-21
PRIOR PLING DATE: 2000-11-10
PRIOR PLING DATE: 2000-12-00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps:
                     FILING DATE: 2001-05-10
APPLICATION NUMBER: PCT/US99/05028
FILING DATE: 1999-03-08
APPLICATION NUMBER: 09/854,280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100.00%
100.00%
98.68%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA
ORGANISM: Homo Sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Alignment Scores
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-908-827-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Yansura. Daniel TILLO MONCOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF FILE REPERRORE: 1918 HIGHIRITORIO(US)
CURRENT APPLICATION NUMBER: US/09/908,827
CURRENT FILLING DATE: 2001-07-18
                                    123 ValPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGlu 142
                                                                           673 GICITCIACAGGCGGCCATGCCATGCGAGAAGGCCACCCAAAGGGCTACTGCTGGAG 732
613 CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACT 672
                                                                                                                     R FILING DATE: 1998-05-15
R APPLICATION NUMBER: 60/113,621
RR FILING DATE: 1998-12-23
RR FILING DATE: 1999-04-21
RR FILING DATE: 1999-04-21
RR FILING DATE: 1999-04-26
RR FILING DATE: 1999-04-26
RR FILING DATE: 1999-04-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: 60/172,096
PILING DATE: 1999-06-09
FILING DATE: 1999-12-23
APPLICATION NUMBER: 60/175,481
FILING DATE: 2000-01-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 1999-08-25
APPLICATION UNDBER: 09/380,142
FILING DATE: 1999-08-25
APPLICATION NUMBER: 09/644,848
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 2000-06-22
APPLICATION WUNBER: 60/242,837
FILING DATE: 2000-10-24
APPLICATION NUMBER: 60/244,072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: 60/085,579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 1999-05-14 APPLICATION NUMBER: 60/138,387
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AFFLING DATE: 2000-01-11
APPLICATION NUMBER: 60/191,007
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 2000-10-26
APPLICATION NUMBER: 09/311,832
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 1999-05-14 APPLICATION NUMBER: 09/380,138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 2000-08-22
APPLICATION NUMBER: 09/747,259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 2000-12-20
APPLICATION NUMBER: 09/816,744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: 60/213,807
                                                                                                                                                                                                                                                Sequence 5, Application US/09908827
Publication No. US20030054442A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                               Godowski, Paul
Grimaldi, Christopher
Gurney, Austin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VanLookeren, Menno
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Vandlen, Richard
Watanabe, Colin
Williams, P.Mickey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 2001-05-10
                                                                                                                                                                                                                                                                                                                 APPLICANT: Chen, Jian
APPLICANT: Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Li, Hanzhong
Hillan, Kenneth
                                                                                                                                                                                                                                                                                                                                                                              Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                        Fong, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Wood, William
                                                                                                                                                                                                                               US-09-908-827-5
                                                                                                                                                                                                         RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
                                                                                                                                                                g
```

552

82

432

612

```
673 GTCTTCTACAGGCGGCCATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAG 732
                                                                                                                                                                                                                                                       Watanabe, Colin K. Wood, William I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              898.00
100.00%
100.00%
98.68%
                                                                                                                                                   APPLICANT: Eaton, Dan L.
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary F
                                                                                                                                                                                                                                            Gurney, Austin L.
                                                                                                                                                                                                   Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                        ; ORGANISM: Homo Sapien
US-10-063-567-155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Percent Similarity:
Best Local Similarity:
Query Match:
                                                                                                  US-10-063-567-155
                                                                                                                                                                                                                                                                                                                                                                                                1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Alignment Scores
                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 155
                                                                                                                                                                                   APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                    APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      123
     g
                               δy
                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AsnArgLeuProGlnAspLeuTyrHisAlaArgCysLeuCysProHisCysValSerLeu 102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ValPheTyrargArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGlu 142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           553 AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA 612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  103 GlnThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThr 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                62
                                                                                                                                                                                                                                               APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Compositions and Methods for the Treatment of Immu
TITLE OF INVENTION: Related Diseases
FILE REFERENCE: P3133R107
CURRENT APPLICATION NUMBER: US/10/213,181
CURRENT APPLICATION NUMBER: US/10/22,594
PRIOR APPLICATION NUMBER: US 10/052,594
PRIOR PILING DATE: 2002-01-18
PRIOR PILING DATE: 2000-11-18
PRIOR APPLICATION NUMBER: US 60/177,118
PRIOR APPLICATION NUMBER: US 60/177,118
PRIOR FILING DATE: 2000-01-20
NUMBER OF SEQ ID NOS: 24
SEQ ID NO 17
                               789
ArgArgLeuTyrArgValSerLeuAlaCysValCysValArgProArgValMetGly 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             43 ValProProLeuGluProAlaArgProAsnArgHisProGluSerCysArgAlaSerGlu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   23 CysCysProSerLysGlyGlnAspThrSerGluGluLeuLeuArgTrpSerThrValPro
               Length:
Matches:
Conservative:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-037-591A-2 (1-161) x US-10-213-181-17 (1-1320)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps:
                                                                                 Sequence 17, Application US/10213181 Publication No. US20030054484A1 GENERAL INFORMATION:
                                                                                                                                                   Godowski, Paul
Grimaldi, Christopher
Gurney, Austin
Hillan, Kenneth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4.85e-92
898.00
100.00%
100.00%
98.68%
                                                                                                                                                                                                                       Watanabe, Colin
Wood, William
                                                                                                                         APPLICANT: Fong, Sherman APPLICANT: Goddard, Audrey
                                                                                                                                                                                                            Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Homo Sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Alignment Scores:
                                                                     US-10-213-181-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-213-181-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
                                                                                                                                                                                                          APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                       APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
 143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         123
 ð
                        a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
```

```
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME FILE REPERBNCE: P3290RIC1 CURRENT APPLICATION NUMBER: US/10/063,567 CURRENT FILING DATE: 2002-05-02 Prior Application removed - See File Wrapper or Palm NUMBER OF SEQ ID NOS: 170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GlnThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThr 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ValPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGlu 142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                62
                 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ArgArgLeuTyrArgValSerLeuAlaCysValCysValArgProArgValMetGly 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ValProProLeuGluProAlaArgProAsnArgHisProGluSerCysArgAlaSerGlu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AspGlyProLeuAsnSerArgAlaIleSerProTrpArgTyrGluLeuAspArgAspLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GATGGACCCCTCAACAGCAGGCCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        613 CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACACAACCAGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3 GlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrpProSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             143 ArgArgLeuTyrArgValSerLeuAlaCysValCysValArgProArgValMetGly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1320
159
0
0
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-037-591A-2 (1-161) x US-10-063-567-155 (1-1320)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length:
                                                                                                         Sequence 155, Application US/10063567 Publication No. US20030069394A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                  <del>ب</del>
                                                                                                                                                                                                                                                Godowski, Paul J.
Grimaldi, Christopher
```

```
Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ŏλ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                  APPLICANT: GITTEPY ABILT L.
APPLICANT: GATABAD ACTION L.
APPLICANT: Watabab Colin K.
APPLICANT: Wood, William I.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC FITLE OF INVENTION: ACIDS ENCODING THE SAME FILE REFERENCE: P3230R1C1
CURRENT APPLICATION NUMBER: US/10/063,599
CURRENT FILING DATE: 2002-05-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  83 AsnArgLeuProGlnAspLeuTyrHisAlaArgCysLeuCysProHisCysValSerLeu 102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              103 GlnThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThr 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           613 CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACT 672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           123 ValPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGlu 142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  493 GATGGACCCCTCAACAGCAGGCCCATCTCCCCTGGAGATATGAGTTGGACAGAGACTTG 552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    733 CGCAGGCTGTACCGTGTTTCCTTAGCTTGTGTGTGTGTGCGGCCCCGTGTGATGGGC 789
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 63 AspGlyProLeuAsnSerArgAlaIleSerProTrpArgTyrGluLeuAspArgAspLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-037-591A-2 (1-161) x US-10-063-599-155 (1-1320)
                                                                                                                                                                                                                                                                                                                   Prior Application removed - See File Wrapper or
NUMBER OF SEQ ID NOS: 170
SEQ ID NO 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps:
                           RESULT 14
US-10-063-599-155
is Sequence 155, Application US/10063599; Publication No. US20030078387A1
; CENERAL INFORMATION:
                                                                                                                                                  APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                                                            4.85e-92
898.00
100.00%
100.00%
98.68%
                                                                                                                    Filvaroff, Ellen
Gerritsen, Mary E.
Goddard, Audrey
                                                                                                         APPLICANT: Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                     ; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-063-599-155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Percent Similarity:
Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 15
US-10-212-912-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              염
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        å
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ŏ
```

```
GlnThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThr 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ValPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGlu 142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ArgargLeuTyrArgValSerLeuAlaCysValCysValArgProArgValMetGly 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AspGlyProLeuAsnSerArgAlaIleSerProTrpArgTyrGluLeuAspArgAspLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GATGGACCCTCACAACAGCAGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGAACTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: COUR, COURSE, Audies
APPLICANT: Goddard, Audies
APPLICANT: Goddard, Audies
APPLICANT: Goddwski, Paul
APPLICANT: Grimald, Christopher
APPLICANT: Tumas, Daniel
APPLICANT: Tumas, Daniel
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin
APPLICANT: Watanabe, Colin
APPLICANT: Wood, William
APPLICANT: Wood, William
APPLICANT: Wed, William
APPLICANT: Wed, William
APPLICANT: Wood, William
APPLICANT: Wood, William
TITLE OF INVENTION: Compositions and Methods for the Treatment of II
TITLE OF INVENTION: Related Diseases
FILE REFERENCE: P3133RLC2
CURRENT APPLICATION NUMBER: US, 10,7212, 912
CURRENT APPLICATION NUMBER: PCT, UGSO, 30873
PRIOR FILING DATE: 2000-11-10
PRIOR PPLICATION NUMBER: PCT, UGSO, 30873
PRIOR FILING DATE: 1999-12-23
NUMBER OF SEQ ID NOS: 24
SEQ ID NO 17
LENGTH: 1320
                                                                                                                                                                                                         oŧ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1320
159
0
0
0
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-10-037-591A-2 (1-161) x US-10-212-912-17 (1-1320)
Application US/10212912
No. US20030077737A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4.85e-92
898.00
100.00%
100.00%
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; ORGANISM: Homo Sapien
US-10-212-912-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Percent Similarity:
Best Local Similarity:
                        Publication No. vacu
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            733
```

Search completed: May 12, 2003, 02:56:26 Job time : 102 secs

UI-R-DZ1

```
BG609875 324181 MA
BM540145 hb18f07.9
BG55452 H4028C03-
BE108127 UI-R-ET1-
BG211497 UI-R-BT1-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AI430337 524 bp mRNA linear EST 15-MAR-2000 mf68bl0.yl Soares mouse embryo NbME13.5 14.5 Mus musculus cDNA clone IMAGE:419419 5', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        W87101 mf38e01.rl
AA044549 mj12c03.r
W83241 mf23g06.rl
BE307772 601097115
                                                                                                                                                                                                                                                                                                                                  A1867949 wb90b08.x
A1375735 ta64c02.x
A1370793 ta58a04.x
AA780147 af37c02.s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BI828970 603074846
BF682066 602117154
W89980 mf39h11.rl
                                                                                                                                                                                                                                                                                                                                                                                                                        BM826445 K-EST0098
                                                                                                                                                                                                                                                                                                                                                                                                                                        BF476508 naa27b03.
BI413156 602990024
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AK003506 Mus muscu
BF408277 UI-R-BJ2-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BI408737 602964519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BB629840 BB629840
BI733853 603353138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Marra,M., Hillier,L., Kucaba,T., Martin,J., Beck,C., Wylie,T.,
Underwood,K., Steptoe,M., Theising,B., Allen,M., Bowers,Y., Person
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AA960023 vw53h08.s
BI561289 603256441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AL271443 Tetraodon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AI275406 q163c10.x
AA763404 vw53h08.r
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RF510968 UI-H-BI4-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AA015563 mi61d10.r
AA443286 zw87h02.s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BG368728 HVSME1002
                                                                                                                                                                                                                                                                                                              BQ604493 MI-P-CP1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AI645992 vw53h08.x
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AA680405 zi38h02.s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BI274883 UI-R-CWO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                           AI430337 mf68bl0.y
                                                                                                                                                                                                                                                                                                                                                                                                        BQ574994 UI-H-E21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AJ457515 AJ457515
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                   BQ209760
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ALIGNMENTS
                                                                       SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BI408737
AI275406
AA763404
BF510968
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AK003506
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BG368728
                                                                                                                                                           AI430337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AA443286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AI430337.1 GI:4276173
                                                                                                                          B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 (bases 1 to 524)
                                                                                                                          Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        house mouse.
                                                                                                      Query
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AI430337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EST
                                                                                                                        Score
                                                                                                                                                                                                                                                                                                                                                                   125.5
125.5
125.5
125.5
125.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                       124.5
123.5
123.5
120.5
119.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               119
116.5
115.5
115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  114.5
112.5
110.5
110.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              105.5
105.1
104.5
103.5
103.5
101.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 1
AI430337
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VERSION
                                                                                                         Result
                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MODEL-frame+_prin.model_-DEV-xlh
-Q-Cgn2_1/USPTO_spool/US10037591/runat_06052003_123154_22289/app_query.fasta_1.327
-DB-EST -QFWT-fastap -SUFFX-p20.rst -MINMATCH-0.1_LOOPGIA.0_LOOPGIXT=0
-DG-EST -QFWT-fastap -SUFFX-p20.rst -MINMATCH-0.1_LOOPGIA.0_LOOPGIXT=0
-DOCALIGN-200 -THR_SCORE-pct -THR_MAX=100 -THR_MIN-0 -ALIGN-15 -MODE-LOCAL
-OUTPMT-pct -NORM-ext -HBRASIZE-500 -MINLEND -MAX.LENH-200000000
-USFR-US10037591_6CGN_1_11456_erunat_06052003_123154_22289 -NCPU-6 -ICPU-3
-NO_XLPXY -NO_MMARP -LARGEQUERY -NGC_SCORES-0 -WAIT -LONGLOG -DEV_TIMEOUT-120
-WARN_TIMEOUT-30 -THREADS-1 -XGAPOP-10 -XGAPEXT-0.5 -FGAPOP-6 -FGAPEXT-7
                                                                                                                                   (without alignments)
2462.203 Million cell updates/sec
                                                                                                                                                                                                                         1 MYQVVAFLAMVMGTHTYSHW.......ERRLYRVSLACVCVRPRVMG 161
                                                                                                                      Seconds
                                                                                                                                                                                                                                                                                                                                                                                                      32308132
              GenCore version 5.1.4_p5_4578
Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                  ; Search time 1059
                                                                                nucleic search, using frame_plus_p2n model
                                                                                                                                                                                                                                                                                                                                                                 16154066 segs, 8097743376 residues
                                                                                                                                                                                                                                                                                                                                                                                                Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                             0.5
                                                                                                                  May 12, 2003, 02:01:34
                                                                                                                                                                                                                                                                          Xgapop 10.0 , Xgapext
Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
Delop 6.0 , Delext
                                                                                                                                                                                                                                                                                                                                                                                                                                   Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Post-processing: Minimum Match 0%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          em_gss_other
                                                                                                                                                                                    US-10-037-591A-2
910
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              em_gss_hum:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     em_gss_fun:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              em_estfun:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  em_gss_inv:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  em_gss_pln:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         em_gss_mam:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      em_gss_vrt:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         em_gss_mus:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          em_gss_pro:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            em_gss_rod:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               em_estom:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            em_estba:*
em_esthum:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   gb_est4:*
gb_est5:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  em_estro:*
em_htc:*
gb_est1:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gb_est3:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               em_estov:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               dp_gss:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           em_estin:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gb_htc:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gb_est2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 em_estmu:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Command line parameters:
                                                                                                                                                                                                                                                             BLOSUM62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EST:*
                                                                                                                                                                                                                                                         Scoring table:
                                                                                                                                                                                                          Perfect score:
                                                                                  OM protein
                                                                                                                                                                                                                         Sequence:
                                                                                                                                                                                                                                                                                                                                                                 Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Jatabase
                                                                                                                 Run on:
                                                                                                                                                                                        ritle:
```

~

```
T 3'], on equal amounts of mRNA from 2 13.56pc and 2 14.5dpc embryos [total RNA provided by Minoru Ko, Wayne State Univ., from 2 ]; double-stranded cDNA was ligated to Bco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library went through one round of normalization, and was constructed by Bento Soares and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /note="Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T., Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M., Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B., Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@lmage.llnl.gov) for further information.
                                                                                                                                                                                                                                                                     W88186 420 bp mRNA linear EST 12-SEP-mf68b10.rl Soares mouse embryo NbME13.5 14.5 Mus musculus cDNA clone IMAGE:419419 5', mRNA sequence.
                                                              The WashU-HHMI Mouse EST Project Unpublished (1996)
On Sep 12, 1996 this sequence version replaced gi:1402263. Contact: Marna M/Mouse EST Project WashU-HHMI Mouse EST Project Washington University School of MedicineP 444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Fax: 314 286 1810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /clone_lib="Soares mouse embryo NbME13.5 14.5"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /tissue_type="embryo"
/dev_stage="13.5.14.5dpc total fetus"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Seq primer: -28M13 rev2 from Amersham High quality sequence stop: 408. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /db_xref="taxon:10090"
/clone="IMAGE:419419"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /strain="C57BL/6J"
                                                                                                                                             M.Fatima Bonaldo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /sex-"unknown"
                                                                                                                                                                                                                                                                                                                                                         W88186.1 GI:1542472
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7.4e-38
493.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 (bases 1 to 420)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      140 c
                                                                                                                                                                                                                                                                                                                                                                                                                           Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Waterston, R.
                                                                                                                                                                                                                                                                                                                                                                                                      house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        82
                                                                                                                                                                                                                                                                                                                                     W88186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                  EST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT.
                                                                                                                                                                                                                                                                                          DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pred. No.:
                                                                                                                                                                                                                                                                                                                                     ACCESSION
                                                                                                                                                                                                                                 RESULT 2
W88186
                                                                                                                                                                                                                                                                                                                                                                            KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                           VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score:
                                                                                                                                                                                          g
                           셤
                                                                    δ
                                                                                                      8
                                                                                                                                                 QY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LLNL; contact the
TMGGE Consortium (info@image.llnl.gov) for further information.
This read is a RESEQUENCE of a previously sequenced mouse clone
This read has been verified (found to hit its original self in the
,B., Swaller,T., Gibbons,M., Pape,D., Harvey,N., Schurk,R., Ritter,E., Kohn,S., Shin,T., Jackson,Y., Cardenas,M., McCann,R., Materston,R. and Wilson,R.
The WashU-NCI Mouse EST Project 1999
Unpublished (1999)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note-"Vector: pT7T3D-Pac (Pharmacia) with a modified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              93 ArgCysLeuCysProHisCysValSerLeuGlnThrGlySerHisMetAspProArgGly 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               113 AsnSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArgArgProCysHisGlyGlu 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               75 CACCACGCAGAATCCTGCAGGGCCAGCAAGGATGGCCCCCTCAACAGCAGGGCCATCTCT 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     135 CCTTGGAGCTATGAGTTGGACAGGGACTTGAATCGGGTCCCCCAGGACCTGTACCACGCT 194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            92
                                                                                                  Contact: Marra M.WashU-NCI Mouse EST Project 1999
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1800
Email: mouseest@watson.wustl.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        195 CGATGCCTGTGCCCACACTGCGTCAGCCTACAGGCTCCCACATGGACCCGCTGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         33 GluGluLeuLeuArgTrpSerThrValProValProProLeuGluProAlaArgProAsn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              15 GAGGAGTGGCTGAAGTGGAGCTCTGCATCTGTCTCCCCCCCAGAGCCTCTGAGCCACACACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      53 ArgHisProGluSerCysArgAlaSerGluAspGlyProLeuAsnSerArgAlaIleSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /db_xref="taxon:10090"
/clone="IMAGE:419419"
/clone_lib="Soares mouse embryo NbME13.5 14.5"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /tissue_type="embryo"
/dev_stage="13.5-14.5dpc total fetus"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     524
106
6
16
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length:
Matches:
Conservative:
Mismatches:
Indels:

    .524
    /organism="Mus musculus"

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps:
                                                                                                                                                                                                                                                                                                                                                  Seq primer: -40RP from Gibco
High quality sequence stop: 476
POLIA-No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-037-591A-2 (1-161) x AI430337 (1-524)
                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /strain-"C57BL/6J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /sex="unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1.88e-47
594.00
87.50%
82.81%
65.27%
                                                                                                                                                                                                                                                                                                                  correct orientation)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                       MGI:253971
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                              source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ..
9
                                                                TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                           COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δ
```

```
BMS40145 553 bp mRNA linear EST 20-FEB-2002 hb18f07.gl Canis cDNAs from testes cells Canis familiaris cDNA clone hb18f07.5', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        dog.

Canis familiaris

Canis familiaris

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Bunmalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.

(bases 1 to 553)

('Shaughnessy,A.L., McCombie,W.R., Baker,J.P., Balija,V., Cunnius
'D., Dedhia,N.N., de la Bastide,M., Katzenberger,F., King,L.,
Kirchoff,K.A., Miller,B., Muller,S., Nascimento,L.U., Palmer,L.,
Santos,L., Shah,R.S., Spiegel,L.A., Zutavern,T., Preston,R. and
Hannon,G.J.
                       /note="Vector: pCMV SPORT6; Site_1: Not1; Site_2: Sal1; Library made from pooled tissue from day 11, 13, 15, 20, and 30 embryos." 66 t
                                                                                                                                                                                                                                                                                                                                                                                                91 isAlaArgCysLeuCysProHisCysValSerLeuGlnThrClySerHisMetAspProA 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       199 ACGCTCGTTGCCTGTGTCCACACTGTGTCAGCCTCCGGACGGGTTCCCACATGGATCCCC 258
                                                                                                                                                                                                                                                                                                                                                                                                                                              51 oAsnArgHis-ProGluSerCysArgAlaSerGluAspGlyProLeuAsnSerArgAlaI 71
                                                                                                                                                                                                                                                                                                                             |||||||::::::|||:::
| TATTCAAACTACCAGGGGGGGGGAACAGGACTGGGACAAGAAGCCAGGCCCTGACAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               32 rGluGluLeuLeuArgTrp---SerThrValProValProProLeuGluProAlaArgPr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Expressed sequence tags from Canis familiaris (dog) (2002) Unpublished (2002) Contact: W. Alchard McCombie Lita Annenberg Hazen Genome Sequencing Center Cold Spring Harbor Laboratory Po Box 100, Cold Spring Harbor, NY 11724, USA Tel: 516 367 8884 Fax: 516 367 8874 Eax: 516 367 8874 Eax: 516 367 8874 Polate: hbl8 row: f column: 07
                                                                                                                                                                                                                                                                                                       17 TyrSerHisTrpProSerCys-CysProSerLysGlyGlnAsp-
                                                                                                                                                 Length:
Matches:
Conservative:
Mismatches:
                                                                                                                                                                                                                    Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                124 TCCCTCCAGGACCTGACGCTTGCCACCCC-----
                                                                                                                                                                                                                                                                     US-10-037-591A-2 (1-161) x BG609875 (1-344)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              131 lyGluLysGlyThrHisLysGlyTyr 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ||::::::||| | ||| |||| GACAGCAGGGGGGCCCATGATAGCTAC 344
          /lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BM540145
BM540145.1 GI:18822687
                                                                                                                                             1.01e-23
345.00
63.85%
53.85%
37.91%
                                                                                                                                                                            Percent Similarity:
Best Local Similarity:
Query Match:
                                                                            Ø
                                                                            64
                                                                                                                               Alignment Scores:
                                                                          BASE COUNT
ORIGIN
                                                                                                                                                   ..
90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 4
BM540145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMMENT
                                                                                                                                                                                                                                                                                                       ŏ
                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Single pass sequencing. Bases called and alt_trimmed with phred v0.980904.e. Vector identified by cross_match with the -minscore 18 and -minmatch 12 options.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EST 17-APR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus. 1 (bases 1 to 344)
Fahrenkrug,S.C., Freking,B.A., Rohrer,G.A., Smith,T.P.L., Casas,E. Stone,R.T., Heaton,M.P., Grosse,W.M., Bennett,G.A., Laegreid,W.W. and Keele,J.W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Design and use of two pooled tissue normalized cDNA libraries for
                                                                                                                                                                                                             113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GlyThrHisLysGlyTyrCysLeuGluArgArgLeuTyrArgValSerLeuAlacysVal 153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               53
                                                                                                                                                                                                73
                                                                                                                                                               87
                                                                                                                    34 GluLeuLeuArgTrpSerThrValProValProProLeuGluProAlaArgProAsnArg
                                                                                                                                           54 HisprogluserCysArgAlaSerGluAspGlyProLeuAsnSerArgAlalleSerPro
                                                                                                                                                                                                                                                            74 TrpArgTyrGluLeuAspArgAspLeuAsnArgLeuProGlnAspLeuTyrHisAlaArg
                                                                                                                                                                                                                                                                                                                               CysLeuCysProH1sCysValSerLeuGlnThrGlySerH1sMetAspProArgGlyAsn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BG609875 · 344 bp mRNA linear
324181 MARC 1PIG Sus scrofa cDNA 5', mRNA sequence.
BG609875
       200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    USDA, ARS, US Meat Animal Research Center
PO Box 166, Clay Center, NE 68933-0166, USA
TET: 402 762 436
Fax: 402 762 4390
                  Mismatches:
Indels:
                                                      Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Email: smith@email.marc.usda.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1. .344
/organism≖"Sus scrofa"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /db_xref="taxon:9823"
/clone_lib="MARC 1PIG"
/tissue_type="pooled"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BACKWARD: GTTTTCCCAGTCACGACG
Plate: 100 row: G column: 12
Seq primer: ATTTAGGTGACACTATAG.
                                                                                   US-10-037-591A-2 (1-161) x W88186 (1-420)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FORWARD: AGGAAACAGCTATGACCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BG609875.1 GI:13659854
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EST discovery in swine
Unpublished (2000)
Contact: Smith TPL
84.25%
78.74%
54.18%
Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRimers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sus scrofa
                              Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                   94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 3
BG609875
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LOCUS
                                                                                                                      ò
                                                                                                                                                    g
                                                                                                                                                                                          ò
                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                              ద
                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                      ô
                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
```

```
97044477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Rattus.
                                                                                                                                                                                                                                                                                                                                                                Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EST
                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match:
                                                                                                                                                source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LOCUS
                                                                                                                                                                                                                                                                                                                                                                            Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BE108127/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                       BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACCESSION
                                                                                                                                                                                                                                                                                                                                                                Alignment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 6
                                                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                                                                     ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                           Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 qq
                                                                                                     /tissue_type="testes"
//tissue_type="testes"
//ote="Vector: Lambda Zap II; The library was produced by Greg Hannon and Raymond Preston (Cold Spring Harbor Laboratory). This library is oligo(dT) primed using stratagene zap cDNA synthesis kit. It was made from dog testes. Please contact Greg Hannon (hannon@cshl.org) with any library related inquiries."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          549 bp mRNA linear EST 20-JUN-2002
H4028C03-3 NIA Mouse 7.4K cDNA Clone Set Mus musculus cDNA clone
B0554452
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 549)
1 (bases 1 to 549)
2. R. Stago, C.A., Bassey, U., Aiba, K., Hamatani, T., Kargul, G.J., Luo, A.G. and Ko, M.S.H.
Assembly, verification, and initial annotation of NIA 7.4K mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     370 CATGAGTGGCTGAAGCGGGACACTGTGCTCAAGTTCCCCGGAGAGACCACTAGCCTCACC 429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   33 GluGluLeuLeuArgTrpSerThrValProValProProLeuGluProAlaArgProAsn 52
                                                                                                                                                                                                                                                                                                                                                                            1 MetryrGlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyr----- 17
                                                                                          /clone_lib="Canis cDNAs from testes cells"
                                                                                                                                                                                                                                                       553
64
8
21
1
                                                                                                                                                                                                                                                      Length:
Matches:
Conservative:
Mismatches:
Indels:

    .553
    /organism="Canis familiaris"

                                                                                                                                                                                                                                                                                                                          Gaps:
US-10-037-591A-2 (1-161) x BM540145 (1-553)
                                                                /db_xref="taxon:9615"
/clone="hb18f07"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BQ554452.1 GI:21455340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cDNA clone set
Unpublished (2002)
Other_ESTs: H4028C03-5
Contact: Yong Qian
                                                                                                                                                                                                                                                   1.15e-22
337.00
71.29%
63.37%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            house mouse.
                                                                                                                                                                                                                                                                                              Best Local Similarity:
                                                                                                                                                                                                     138
                                                                                                                                                                                                                                                                                  Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         550 CGT 552
                                                                                                                                                                                                                                            Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                93 Arg 93
                                                                                                                                                                                                                                                                                                           Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                         ..
No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DEFINITION
                                                                                                                                                                                                     BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 5.
BQ554452
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 JOURNAL
                          FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE
                                                                                                                                                                                                                DRIGIN
                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                            ď
                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
```

```
National Institute on Aging/National Institutes of Health 333 Cassell Drive, Suite 3000, Baltimore, MD 21224-5820, USA Email: cdnedigsun.grc.nia.nih.gov
This clone set has been freely distributed to the community. Please visit http://lgsun.grc.nia.nih.gov/cDNA/NIA_7_4k.html for details. Plate: H4028 row: C column: 03 Seg primer: -2NA13 Forward.High quality sequence stop: 549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BE108127 432 bp mRNA linear 6ST 13-JUN-2000 UI-R-CA0-axa-f-12-0-UI.sl UI-R-CA0 Rattus norveçicus cDNA clone . UI-R-CA0-axa-f-12-0-UI 3', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /note="Vector: psporr1; Site_1: Sal1; Site_2: Not1; This clone is among a rearrayed set of 7,407 clones from more than 20 cDNA libraries."
121 c 121 c 14 9 135 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rattus norvegicus
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia: Eutheria, Rodentia, Sciurognathi, Muridae, Murinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 (bases 1 to 432)
Bonaldo,M.F., Lennon,G. and Soares,M.B.
Normalization and subtraction: two approaches to facilitate gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Contact: Soares, MB
Program for Rat Gene Discovery and Mapping
University of Iowa
451 Eckstein Medical Research Building Iowa City, IA 52242, USA
Tel: 319 335 8250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18 ---SerHisTrpProSerCysCysProSerLysGlyGlnAspThrSerGluGluLeuLeu 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /clone_lib="NIA Mouse 7.4K cDNA Clone Set"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        549
28
5
10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length:
Matches:
Conservative:
                                                                                                                                                                                                                                               1. 549
/organism="Mus musculus"
/strain="C57BL/6"
/db_xref="niaEST:H4028C03-3"
/db_xref="taxon:10090"
/clone="H4028C03"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    :::|||||||:::
517 AAGTGGAGCTCTGCATCTGTGTCCCCCCCAGAG 549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       37 ArgTrpSerThrValProValProProLeuGlu 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Genome_Rés. 6 (9), 791-806 (1996)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-037-591A-2 (1-161) x BQ554452 (1-549)
                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                    /dev_stage="mixed"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BE108127
BE108127.1 GI:8500232
Laboratory of Genetics
                                                                                                                                                                                                                                                                                                                                                                                                               /sex="mixed"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.00135
139.00
64.718
54.90%
15.27%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Norway rat.
Rattus norv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                        POLYA-Yes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                discovery
```

```
/clone_lb="loop" | Variable | Var
                                                                                                           Craniata; Vertebrata; Euteleostomi;
Sciurognathi; Muridae; Murinae;
                                                                                                                                                                                        1 (bases 1 to 511)
Bonaldo,M.F., Lennon,G. and Soares,M.B.
Normalization and subtraction: two approaches to facilitate gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         oligonucleotide that was used to prime the synthesis of first strand cDNA and therefore this may represent a bonafide poly A tail. The sequence tag present in the cDNA between the NotI site and the oligo-dT track served to identify it as a clone from the normalized hippocampus library cDNA Library Preparation: M.B. Soares Lab Clone distribution: clones will be available through
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The sequence contained an oligo-dT track that was present in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                     451 Eckstein Medical Research Building Iowa City, IA 52242, USA Tel: 319 335 8250
Fax: 319 335 9565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GlnAspLeuTyrHisAlaArgCysLeuCysProHisCysValSerLeuGlnThrGlySer 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  107 HisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArg 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           67 AsnSerArgAlaIleSerProTrpArgTyrGluLeuAspArgAspLeuAsnArgLeuPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          324 GAGGACTTGCCTGAGGCGCGGTGCCTATGTTTGGGTTGCGTGAACCCCTTCACC----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     511
29
18
38
5
                                                                                                                                                                                                                                                                                                                                                                           Contact: Soares, MB
Program for Rat Gene Discovery and Mapping
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /strain="Sprague-Dawley"
/db_xref="taxon:10116"
/clone="UI-R-BT1-bkn-c-11-0-UI"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1. .511
/organism="Rattus norvegicus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Email: msoares@blue.weeg.uiowa.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Research Genetics (www.resgen.com)
                                                                                                                                                                                                                                                                                                              Genome Res. 6 (9), 791-806 (1996)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-037-591A-2 (1-161) x BF409208 (1-511)
                                                                                                        Chordata;
Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     .ocation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Seq primer: M13 Forward POLYA=Yes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TAG_SEQ=GATTG
138 c
                                                                                                           Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                      Iowa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           126.50
52.22%
32.22%
13.90%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.0196
                                                                             Rattus norvegicus
                                                                                                                                                                                                                                                                                                                                                                                                                                      University of
                                                    Norway rat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ď
                                                                                                                                                                                                                                                                                        discovery
                                                                                                                                                                                                                                                                                                                                            97044477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   76
                                                                                                                                                                      Rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    source
                                              SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pred. No.:
                                                                                                                                                                                            REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             87
                                                                                                                                                                                                                                                                                                                                            MEDLINE
                                                                                                                                                                                                                                                                                                              JOURNAL
                  KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                      TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Dβ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ą.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /clone_ib="UJ-R-CA0-axa f-12-0-UI"
/clone_ib="UJ-R-CA0-axa f-12-0-UI"
/clone_ib="UJ-R-CA0"
/lab_host="UJH0B (Life Technologies)"
/note="Vector: pT7130-Pac (Pharmacia) with a modified
polylinker; Site_i: Not I; Site_2: Eco RI; The UJ-R-CA0
library is a subtracted library derived from the following
tissues: thalamus, cerebellum, hypothalamus, medullah, pons
/ midbrain, cerebral cortex, corpus striatum, testis, and
hippocampus. For a detailed description of the library
from which this clone was derived, please visit our web
site at ratest.eng.uiowa.edu. The subtraction has been
previously described in (Bonaldo, Lennon and Soares,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EST 28-NOV-2000
Fax: 319 335 9565

The sequence contained an oligo-dT track that was present in the oligoucleotide that was used to prime the synthesis of first strand cDNA and therefore this may represent a bonafide poly A tail. The sequence tag present in the cDNA between the NotI site and the oligo-dT track served to identify it as a clone from the normalized hippocampus library cDNA Library Preparation: M.B. Research Genetics (www.resgen.com)

Research Genetics (www.resgen.com)

Sea primer: M13 Forward
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BF409208
511 bp mRNA linear EST 28-NOV-2
UI-R-BT1-bkn-c-11-0-UI.sl UI-R-BT1 Rattus norvegicus CDNA clone
UI-R-BT1-bkn-c-11-0-UI 3', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     87 GlnAspLeuTyrHisAlaArgCysLeuCysProHisCysValSerLeuGlnThrGlySer 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     269 ATGCAGGAGGACCGTAGCATGGTGAGCGTGCCAGTGTTCAGCCAGGGCCAGTGCCGCGC 210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               127 ArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGluArgArgLeuTyr 146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    323 GAGGACTIGCCIGAGGCGCGCGCTATGTITGGGTIGCGIGAACCCCTICACC-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          107 HisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AsnSerArgAlaIleSerProTrpArgTyrGluLeuAspArgAspLeuAsnArgLeuPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   432
129
138
338
3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length:
Matches:
Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                         organism="Rattus norvegicus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                     /strain="Sprague-Dawley'
/db_xref="taxon:10116"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        147 Arg---ValSerLeuAlaCysValCysVal 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  155 GAGACCATCGCTGTGGGTTGCACCTGCATC 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TAG_LIB=UI-R-CA0
TAG_TISSUE=hippocampus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-037-591A-2 (1-161) x BE108127 (1-432)
                                                                                                                                                                                                                                                                                                                                                                     ocation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              133 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TAG_SEQ=GATTG"
112 c 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BF409208.1 GI:11397183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.0155
126.50
52.22%
32.22%
13.90%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                      POLYA-Yes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BF409208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                 source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 7
BF409208/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
                                                                                                                                                                                                                                                                                                                                                               FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /ERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LOCUS
```

셤

ò 요 ò g ò 8 ò

ò

g

. 98

음

셤

g ð

ò

```
TAG_LIB=UI-R-DY1
TAG_TISSUE=cartilage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Norway rat.
                                                                                                                                                                                                         Percent Similarity:
Best Local Similarity:
                                                                         ø
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            POLYA-Yes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      discovery
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BQ209760
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Rattus.
                                                                                                                                         Alignment Scores:
                                                                                                                                                                                                                                                      Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 9
BQ209760/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCUS
DEFINITION
                                                                                                                                                                   ..
Q
                                                                         BASE COUNT
DRIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL
MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                   Pred.
                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                             ŏ
                                                                                                                                                                                                                                                                                                     EST 02-MAY-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /lab_host="Organ: Femur and Tibla; Vector: pT7T3D-Pac /note="Organ: Femur and Tibla; Vector: pT7T3D-Pac /note="Organ: Femur and Tibla; Vector: pT7T3D-Pac /forte="Organ: Femur and Tibla; Vector: pT7T3D-Pac /site_2: Eco RI: UI-R-DY1 is a normalized cDNA library containing the following tissue(s): Rat Cartilage from Femur and Tibla. The library was constructed according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site, Double stranded
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into pT7T3-Pac vector. The oligonucleotide used to prime the synthesis of Itst-strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is CTAATGGACG. The Rat cartilage tissue was provided by Dr Jeff Stevens at the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Email: msoares@blue.weeg.uiowa.edu
The sequence contained an oligo-dT track that was present in the oligonucleotide that was used to prime the synthesis of first strand cDNA and therefore this may represent a bonafide poly A tail. The sequence tag present in the cDNA between the NotI site and the oligo-dT track served to verify it as a clone from the normalized cartilage library cDNA Library Preparation: M.B. Soares Lab Clone distribution: clones will be available through Research Genetics (www.resgen.com)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Métazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Euthería; Rodentia; Sciurognathi; Muridae; Murinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bonaldo,M.F., Lennon,G. and Soares,M.B. Normalization and subtraction: two approaches to facilitate gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BQ211497
UI-R-DY1-cnq-f-07-0-UI.sl UI-R-DY1 Rattus norvegicus cDNA clone
UI-R-DY1-cnq-f-07-0-UI 3', mRNA sequence.
         270 ATGCAGGAGCGTAGCATGGTGAGCTGCAGTGTTCAGCCAGTGCCAGTGCGCCCC 211
                                                                       127 ArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGluArgArgLeuTyr 146
                                                                                                     Contact: Soares, MB
Program for Rat Gene Discovery and Mapping
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /strain="Sprague-Dawley"
/db_xraf="taxon:10116"
/clone="UT-R-DY1-cng-f-07-0-UI"
/clone_lib="UT-R-DY1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /organism="Rattus norvegicus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /tissue_type="Cartilage"
/dev_stage="ADULT"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Senome Res. 6 (9), 791-806 (1996)
                                                                                                                                                              147 Arg---ValSerLeuAlaCysValCysVal 155
                                                                                                                                                                                                         156 GAGACCATCGCTGTGGGTTGCACCTGCATC 127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         University of Iowa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Seq primer: M13 Forward POLYA-Yes.
                                                                                                                                                                                                                                                                                                                                                                                           BQ211497.1 GI:20427962
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (bases 1 to 533)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           University of Iowa
                                                                                                                                                                                                                                                                                                                                                                                                                                          Norway rat.
Rattus norvegicus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              discovery
                                                                                                                                                                                                                                                                                                                                                                        BQ211497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      97044477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                       EST
                                                                                                                                                                                                                                                      RESULT 8
BQ211497/c
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            source
                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                        ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                             VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
```

```
BQ209760
UI-R-DZ1-cog-i-01-0-UI.sl UI-R-DZ1 Rattus norvegicus cDNA clone
UI-R-DZ1-cog-i-01-0-UI 3', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Métazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The sequence contained an oligo-dT track that was present in the oligonucleotide that was used to prime the synthesis of first strand cDNA and therefore this may represent a bonafide poly A tail. The sequence tag present in the cDNA between the NotI site and the oligo-dT track served to verify it as a clone from the normalized cartilaginous tumor library cDNA Library Preparation: M.B. Soares Lab Clone distribution: clones will be available through Research Genetics (www.resgen.com)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 (bases 1 to 561)
Bonaldo,M.F., Lennon,G. and Soares,M.B.
Normalization and subtraction: two approaches to facilitate gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    451 Eckstein Medical Research Building Iowa City, IA 52242, USA Tel: 319 335 8250
Fax: 319 335 9565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  127 ArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGluArgArgLeuTyr 146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    107 HisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArg 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   270 AIGCAGGAGGACCGIAGCAIGGIGAGCGIGCCAGTGIICAGCCAGGIGCCAGTGCGCGC 211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              210 CGCCTCTGT-----CCGCAACCTCCGGCCCGGGCCCTGCCGCGTGTTGTCATG 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                 67 ASIISETATGAIAILESETPTOTTPATGTYTGLULEUASPATGASPLEUASIAATGLEUPTO
                       1 others
                                                                                                                       533
18
18
38
5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Program for Rat Gene Discovery and Mapping
                                                                                                                     Length:
Matches:
Conservative:
Mismatches:
Indels:
                       ų
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Email: msoares@blue.weeg.uiowa.edu
                       125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Genome Res. 6 (9), 791-806 (1996) 97044477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       147 Arg -- - ValSerLeuAlaCysValCysVal 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       156 GAGACCATCGCTGTGGGTTGCACCTGCATC 127
                                                                                                                                                                                                                                                  Gaps:
                                                                                                                                                                                                                                                                                                    US-10-037-591A-2 (1-161) x BQ211497 (1-533)
TAG_SEQ-CTAATGGACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Seq primer: M13 Forward
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BQ209760.1 GI:20426225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Contact: Soares, MB
                                                                                                                     0.0207
126.50
52.22%
32.22%
13.90%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               University of Iowa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rattus norvegicus
```

```
/clone_lib="MI-P-CPI"
//lab_host="WHIOB (Life Technologies)"
//note="Vector: pT/T3D-Pac (Pharmacia) with a modified
//note="Vector: pT/T3D-Pac (Pharmacia) with a modified
//note="Vector: pT/T3D-Pac (Pharmacia) with a modified
//note="Vector: pT/T3D-Pac (Pharmacia) with a MI-P-CPI
library is normalized library derived from the MI-P-CPI
library, ultimately derived from uterus tissue. For a
detailed description of the library from which this clone
was derived, please visit our web site at
http://plagest.genome.lastate.edu/. The procedure used to
create this library has been previously described (Bonaldo
create this library has been previously described (Bonaldo
Lennon and Soares, Genome Research 6: 791-806, 1996)
                                                                                                                                                                                                                                                                                      Tissue Procurement: Dr. Chris Tuggle, Iowa State University CDNA Library preparation: Dr. M. Bento Soares, University of Iowa CDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa DNA Sequencing by: Dr. M. Bento Soares, University of Iowa Clone Distribution: Researchers may obtain clones from Research Genetics (www.resgen.com).

The following repetitive elements were found in this cDNA sequence: 243-304, >GC_rich#Low_complexity (matched compliment) POLYA-Yes.
Bonaldo,M.F., Lennon,G. and Soares,M.B. Normalization and subtraction: two approaches to facilitate gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        127 ArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGluArgArgLeuTyr 146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        155
                                                                                                                    Contact: Tuggle CK
Molecular Genetics Laboratory, Department of Animal Science
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        67 AsnSerArgAlaIleSerProTrpArgTyrGluLeuAspArgAspLeuAsnArgLeuPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 87 GlnAspLeuTyrHisAlaArgCysLeuCysProHisCysValSerLeuGlnThrGlySer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        107 HisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThrVaiPheTyrArg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        405 GCGGACCTGCCGGAGGCGCGGTGCCTGTGTCTGGGCTGTGTGACCCCTTCACC----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        351 ATGCAGGAGCGCAGCATGCTGAGCGTGCCCGTGTTCAGCCAGGTGCCCGTGCGCCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GGCCTCTGCCCCCTGCCACCGCGCACC------GGGCCCTGCCGCCAGCGCGCGGTCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 678
34
116
339
4
                                                                                                                                                               Iowa State University
201 Kildee Hall, Ames, IA 50011-3150, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /clone="MI-P-CP1-nzc-b-11-0-UI"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           147 Arg---ValSerLeuAlaCysValCysVal------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      142 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length:
                                                                 Res. 6 (9), 791-806 (1996)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1. .678
/organism="Sus scrofa"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-037-591A-2 (1-161) x BQ604493 (1-678)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /strain="crossbreed"
/db_xref="taxon:9823"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TAG_SEQ-AGTCCAATCG"
1 216 c 224 g
                                                                                                                                                                                                               Tel: 5152944252
Fax: 5152942401
Email: cktuggle@iastate.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TAG_LIB=MI-P-CP1
TAG_TISSUE=uterus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     126.00
44.25%
30.09%
13.85%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.0323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ø
                                                     discovery
                                                                                                97044477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BASE COUNT
ORIGIN
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   No.:
                                                                                                MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        291
                                                                      JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURES
                                                                                                                         COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           οy
                                                                                                                                                                                                                                                                                following tissue(s): Swarm Rat Chondrosarcoma. The library was constructed according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into pT773-Pac vector. The oligonucleotide used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is CATTCTTGTPA. The Rat cartilaginous tumor tissue was provided by Dr Jeff Stevens at the University of Iowa.
                                                                                                                                                          /dev_stage="37 days"
/lab_host="DH10B (Life Technologies)"
/note="Corgan: Spine; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; UI-R-DZ1 is a normalized cDNA library containing the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EST 24-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
1 (bases 1 to 678)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            87 GlnAspLeuTyrHisAlaArgCysLeuCysProHisCysValSerLeuGlnThrGlySer 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              107 HisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArg 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         127 ArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGluArgArgLeuTyr 146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            210 CGCCTCTGT-----CCGCAACCTCCTCGGCCCGGGCCCTGCCCAGCGTGTTGTCATG 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              67 AsnSerArgAlalleSerProTrpArgTyrGluLeuAspArgAspLeuAsnArgLeuPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            324 GAGGACTTGCCTGAGGCGCGGTGCCTATGTTTGGGTTGCGTGAACCCCTTCACC----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            270 ATGCAGGAGGACCGTAGCATGGTGAGCGTGCCAGTGTTCAGCCAGGTGCCAGTGCGCCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BQ604493 678 bp mRNA linear EST 2
MI-P-CP1-nzc-b-11-0-UI.s1 MI-P-CP1 Sus scrofa cDNA clone
MI-P-CP1-nzc-b-11-0-UI 3', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  561
29
18
38
3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length:
Matches:
Conservative:
                                                                                          /clone="UI-R-DZ1-cog-i-01-0-UI"
/clone_lib="UI-R-DZ1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TAG_TISSUE=cartilaginous tumor
                                                                                                                                           /tissue_type="Chondrosarcoma"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches:
                    organism="Rattus norvegicus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  127 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels:
                                                /strain="Sprague-Dawley'
/db_xref="taxon:10116"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            147 Arg---ValSerLeuAlaCysValCysVal 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               156 GAGACCATCGCTGTGGGTTGCACCTGCATC 127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-037-591A-2 (1-161) x BQ209760 (1-561)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TAG_SEQ=CATTCTTGTA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               173 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           rag_lib-ui-r-d21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BQ604493.1 GI:21551219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               154 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.0223
126.50
52.22%
32.22%
13.90%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               pig.
Sus scrofa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BQ604493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match:
DB:
source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BQ604493/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LOCUS
```

ò 음 ò 셤

ò 셤 ò 셤 ŏ g

RESULT 11 AI867949/c

셤 ð g DEFINITION

LOCUS

ACCESSION VERSION KEYWORDS SOURCE

ORGANISM

REFERENCE AUTHORS TITLE

JOURNAL COMMENT

```
Double-stranded CDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library went through one round of normalization, and was constructed by Bento Soares and M. Fatima Bonaldo. "
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ta64c02.x1 Soares_total_fetus_ND2HF8_9w Homo sapiens CDNA clone IMAGE:2048834 3' similar to contains MER22.b1 TAR1 repetitive element;, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Contact: Robert Strausberg, Ph.D.
Email: cgapbs r@mail.nih.gov
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 750 Std Error: 0.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 127 ArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGluArgArgLeuTyr 146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AsnSerArgAlalleSerProTrpArgTyrGluLeuAspArgAspLeuAsnArgLeuPro
                                                                                                         111 ::: 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 
                                                                                                                                                                                                                                                152 cecercrecceccaccecceccecaca-----esecerrecceccaccaccacare
                                                             107 HisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArg
266 GTGGACCTGCCGGAGGCACGGTGCCTGTGTCTGGGCTGTGTGACCCCTTCACC----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutele
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /clone_lib="Soares_total_fetus_Nb2HF8_9w"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           405
30
116
39
39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches:
Conservative:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1. 405
/organism="Homo sapiens"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                    147 Arg---ValSerLeuAlaCysValCysVal 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            High quality sequence stop: 403.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /dev_stage="8-9 weeks"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                   GAGACCATCGCTGTGGGCTGCACCTGCATC 69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /clone="IMAGE:2048834"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-037-591A-2 (1-161) x AI375735 (1-405)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Insert Length: 750 Std Erro
Seg primer: -400P from Gibco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AI375735.1 GI:4175725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (bases 1 to 405)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.0177
125.50
51.11%
33.33%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tumor Gene Index
Unpublished (1997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Percent Similarity:
Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 12
AI375735/c
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pred No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                        86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  δλ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                   δy
                                                                                                                             셤
                                                                                                                                                                                                                                                       g
                                                                                                                                                                                             δ
                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Vinote="Organ: prostate; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Plasmid DNA from the normalized library NCI CGAP_Pr22 was prepared, and sscircles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 985608-986759, 1101192-1101959, and 1217928-1220615). Subtraction by Bento Soares and M. Fatima Bonaldo. " a 109 c 131 g 67 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Michael J. Brownstein, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
                                                                                                                                                                                                                                                          A1867949 373 bp mRNA linear EST 17-DEC-1999 wb90b08.xl NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2312919 3' similar to contains Alu repetitive element;, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota: Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. I (bases 1 to 373)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GlnAspLeuTyrHisAlaArgCysLeuCysProHisCysValSerLeuGlnThrGlySer 106
|||||||
|||||||
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                326 AACAAGAGGAGCCTGTCCCTGGGGCTACAGCATCAACCACGACCCCAGCCGTATCCCC 267
   237 GAGACCATCGCCGTGGGCTGCACCTGCATCTTCTGAGACGCCCTCCCCCGCGCCCCCAGCC 178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                67 AsnSerArgAlaIleSerProTrpArgTyrGluLeuAspArgAspLeuAsnArgLeuPro 86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   found through the I.M.A.G.E. Consortium/LLNL at:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                373
30
16
39
3
                                                                Length:
Matches:
Conservative:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 764 Std Error: 0.00
Seg primer: -40UP from Gibco
High quality sequence stop: 305.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /db_xref="taxon:9606"
/clone="IMAGE:2312919"
/clone_lib="NCI_CGAP_Pr28"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-037-591A-2 (1-161) x AI867949 (1-373)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /dev_stage="adult"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                           AI867949.1 GI:5540965
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /sex="male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.0158
125.50
51.11%
33.33%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Tumor Gene Index
Unpublished (1997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                               uman.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match:
```

source

FEATURES

Pred. No.:

Score:

ò 8

SASE COUNT

ORIGIN

Euteleostomi;

σ

QQ

ð g

g G ò đ ò

```
1 (bases 1 to 468)
Hilller,L., Allen,M., Bowles,L., Dubuque,T., Geisel,G., Jost,S.,
Krizman,D., Kucaba,T., Lacy,M., Le,N., Lennon,G., Marra,M., Martin,J., Moore,B., Schellenberg,K., Steptoe,M., Tan,F., Theising,B.,
White,Y., Walle,T., Waterston,R. and Wilson,R.
Unpublished (1997)
                                                                                                                                                                                                                                                                                                                                                                                af37c02.s1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1033826 3', mRNA sequence.
AA780147
EST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Email: est@watson.wustl.edu
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@lmage.llnl.gov) for further information.
Seq primer: -40ml3 fwd. Er from Amersham
High quality sequence stop: 392.
Location/Qualifiers
127 ArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGluArgArgLeuTyr 146
                                                        GlnAspLeuTyrHisAlaArgCysLeuCysProHisCysValSerLeuGlnThrGlySer 106
                                                                                                                                                                                                                                                  195 CGCCTCTGCCCGCCACCGCCCCGCACA-----GGGCCTTGCCGCCAGCGCGCGCAGTCATG 142
                                                                                                                                 107 HisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArg
                                                                                                                                                                     255 ATGCAGGAGGACCGCAGCATGGTGAGCGTGCCGGTGTTCAGCCAGGTTCCTGTGCGCCGC
                                                                                             309 GTGGACCTGCCGGAGGCACGGTGCCTGTGTTTGGGCTGTGTGAACCCCTTCACC-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Contact: Wilson Rk
Washington University School of Medicine
444 Forest Park Parkway, Box 8501, St. Louis, MO
17=1: 314 286 1810
Fax: 314 286 1810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1033826"
                                                                                                                                                                                                                                                                                         147 Arg----ValSerLeuAlaCysValCysVal 155
                                                                                                                                                                                                                                                                                                                 141 GAGACCATCGCTGTGGGCTGCACCTGCATC 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1. 468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             пеши
                                                                                                                                                                                                                                                                                                                                                                                        AA780147/c
                                                                                                                                                                                                                                                                                                                                                                                                                          DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BASE COUNT
ORIGIN
                  369
                                                        87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
                                                                                                                                                                                                                                                                                                                                                                    RESULT 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOURCE
                                                    δ
                                                                                         qq
                                                                                                                                 ò
                                                                                                                                                                     g
                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EST 16-FEB-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 467)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                AI370793
467 bp mRNA linear EST 16-FEB-1 taS8a04.x1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:2048238 3', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Email: cgapbs-remail.nih.gov
This clone is available royalty-free through LLNL; contact the
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 794 Exror: 0.00
Seq primer: -400P from Gibco
High quality sequence stop: 439.
Location/Qualifiers
          87 GlnAspLeuTyrHisAlaArgCysLeuCysProHisCysValSerLeuGlnThrGlySer 106
                                                      254
                                                                                           126
                                                                                                                                 194
                                                                                                                                                               127 ArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGluArgArgLeuTyr 146
                                                                                                                                                                                            111 | 11 :::11 :::
193 GGCCTTGCCGCCACGCCCCGCACGCGCCCACGCGCGCATCATG 140
                                253 AIGCAGGAGGACCGCAGCAIGGIGAGCGIGCCGGIGITCAGCCAGGIICCIGIGCGCCGC
                                                                                       107 HisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /db_xref="taxon:9606"
/clone="IMAGE:2048238"
/clone_lib="Soares_total_fetus_Nb2HF8_9w"
/dev_stage="8-9 weeks"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   467
30
16
39
5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   'organism="Homo sapiens"
                                                                                                                                                                                                                                            147 Arg---ValSerLeuAlaCysValCysVal 155
                                                                                                                                                                                                                                                                         139 GAGACCATCGCTGTGGGCTGCACCTGCATC 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /lab_host-"DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                        AI370793.1 GI:4149546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.0216
125.50
51.11%
33.33%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity:
                                                                                                                                                                                                                                                                                                                                                              AI370793
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score: Assemble Score: Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                          VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     source
                                                                                                                                                                                                                                                                                                                                         AI370793/c
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ..
8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
                                                                                                                                                                                                                                                                                                                           RESULT 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score:
```

EST.05-FEB-1998

Chordata; Craniata; Vertebrata; Euteleostomi; Primates; Catarrhini; Hominidae; Homo.

63108

```
by Bento Soares and M. Fatima Bonaldo. 147 g \, 104 t
/clone_lib="Scares_total_fetus_Nb2HF8_9w"
/dev_stage="8-9 weeks"
/lab_host="DH10B"
                                                                                                                                                          468
30
16
                                                                                                                                                                              Conservative:
                                                                                                                                                           Length:
Matches:
                                                                                                              constructed
135 c
                                                                                                                                                         0.0216
125.50
51.11%
                                                                                                                                                                             Percent Similarity:
                                                                                                                                                  Alignment Scores:
                                                                                                                                                          Pred. No.:
                                                                                                                                                                    Score:
```

67 AsnSerArgAlalleSerProTrpArgTyrGluLeuAspArgAspLeuAsnArgLeuPro 86

US-10-037-591A-2 (1-161) x AI370793 (1-467)

õ

red.

ò 셤 ð g ò a g ò

ò

```
Search completed: May 12, 2003, 02:53:31
Job time : 1063 secs
                                                                                                                                  166 c
                                                                                                                                                                                                            0.0283
125.50
39.248
28.488
                                                                                                                                                                                                                                                                                                                                                                                         20 TrpProSer-----
                                                                                                                                                                                                                                                                        Best Local Similarity:
                                                                                                                                      ø
                                                                                                                                  94
                                                                                                                                                                                                                                                    Percent Similarity:
                                                                                                                                                                                              Alignment Scores:
                                                                                                                                                                                                                                                                                          Query Match:
                                                                                                                                                                                                                    ..
..
.
                                                                                                                                    BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     423
                                                                                                                                                        ORIGIN
                                                                                                                                                                                                                    _{\text{Pred}}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                q
.
                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                             염
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CDNA Library preparation: Dr. M. Bento Soares, University of Iowa CDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa DNA Sequencing by: Dr. M. Bento Soares, University of Iowa Clone Distribution: Clone distribution information can be obtained from Dr. M. Bento Soares, bento-soares@uiowa.edu
Seg primer: M13 FORWARD
POLYA-Yes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BQ574994 1inear EST 19-JUN-2002 UI-H-EZ1-bbd-e-09-0-UI.S1 NCI_CGAP_Ch2 Homo sapiens cDNA clone UI-H-EZ1-bbd-e-09-0-UI 3', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Dr. Steven Gitelis/ Rush Presbiterian, Dept. of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         with a modified polylinker; Site_1: EcoR I; Site_2: Not I; With a modified polylinker; Site_1: EcoR I; Site_2: Not I; NCI_CGAP_Ch2 is a normalized cDNA library containing the following tissue(s): Chondrosarcoma Grade II. The library was constructed according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into pT/T3-Pac vector. The oligonucleotide used to prime
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 107 HisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsnGlnThrValPheTyrArg 126
                                                                                                                                      255
                                                                                                                                                                                                                                                                                                            195
                                                                                                                                                                                                                                                                                                                                                127 ArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCysLeuGluArgArgLeuTyr 146
                                                                                                                                                                                          87 GlnAspLeuTyrHisAlaArgCysLeuCysProHisCysValSerLeuGlnThrGlySer 106
                                                                                                                                                                                                                                                                                                                                                                                     67 AsnSerArgAlaIleSerProTrpArgTyrGluLeuAspArgAspLeuAsnArgLeuPro
                                                                                                                                                                                                                  254 ATGCAGGAGCACCGCAGCATGGTGAGCGTGCTGCTGCGCCAGGTTCCTGTGCGCCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /tissue_type="Chondrosarcoma Grade II"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /dev_stage="Adult"
/lab_host="DH10B (Life Technologies)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="UI-H-EZ1-bbd-e-09-0-UI"
    Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   clone_lib="NCI_CGAP_Ch2"
                                                                                                                                                                                                                                                                                                                                                                                                                               147 Arg---ValSerLeuAlaCysValCysVal 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   140 GAGACCATCGCTGTGGGCTGCACCTGCATC 111
                                                                            US-10-037-5918 (1-161) x AA780147 (1-468)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
1. .568
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BQ574994.1 GI:21478311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tumor Gene Index
Unpublished (1997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Orthoapedics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BQ574994
Best Local S
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 15
BQ574994/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
```

```
the synthesis of first-strand cDNA contains a library ta
sequence that is located between the Not I site and the
(dT)18 tail. The sequence tag for this library is
TGATCACGCT.
TAG_LIB-UI-H-EZI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CysValSerLeuGlnThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeuTyr 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       286 IGTGTGAACCCCTTCACC----ATGCAGGAGGACGCAGCATGGTGAGCGTGCCGGTG 233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          78
                                                                                                                                                                                                                                                                                                                                                                                                                                            ---SerLysGlyGlnAspThrSerGluGluLeuLeuArgTrp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SerThrValProValProProLeuGluProAlaArgProAsnArgHisProGluSerCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        542 TGGCCCTCACCAGGTGCCACTGGACCTGGTGTCACGGATGAAACCGTATGCCCGCATGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            59 ArgalaSerGluAspGlyProLeuAsnSerArgAlaIleSerProTrpArgTyrGluLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   346 AACCACGACCCAGCCGTATCCCCGTGGACCTGCCGGAGGCACGGTGCCTGTGTCTGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HisAsnGlnThrValPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TyrCysLeuGluArgArgLeuTyrArg---ValSerLeuAlaCysValCysVal 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -CysCysPro
                                                                                                                                                                                                        568
45
17
56
7
                                                                                                                                                                                                       Length:
Matches:
Conservative:
Mismatches:
                                                                                                                                   134
                                                                                                                                                                                                                                                                                Indels:
                                                                                                                                                                                                                                                                                                                                      US-10-037-591A-2 (1-161) x BQ574994 (1-568)
                                                                                                                TAG_SEO-ATCTAATATG"
                                                                                                                                     174 g
```

```
(without alignments)
9784.140 Million cell updates/sec
                                                                                                                                                                                                                                                   644
                                                                                                                                                                                                                              644
1 ctcaagtcactccctaaaaa......ggcccogtgtgatgggctag
                                                                                                                       May 12, 2003, 01:06:09; Search time 1066 Seconds
                                                                                                                                                                                                                                                                                                                                                                                          32308132
GenCore version 5.1.4_p5_4578 Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                 16154066 seqs, 8097743376 residues
                                                                                                                                                                                                                                                                                                                                                                                     Total number of hits satisfying chosen parameters:
                                                                               OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                                     IDENTITY_NUC Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                          US-10-037-591A-1
                                                                                                                                                                                                                            Perfect score:
                                                                                                                                                                                                                                                                                       Scoring table:
                                                                                                                                                                                                                                                 Sequence:
                                                                                                                                                                                                                                                                                                                                                     Searched:
                                                                                                                                                                                                          Title:
                                                                                                                         Run on:
```

em_gss_other em_gss_pro:* em_gss_mus:, em_gss_rod:' em_dss_fun: em_dss_hum em dss vrt em_gss_inv em_estfun em_esthum: em_estba: em_estmu em_estpl em_estro em_estov _est3 qb_est5 db_dss est gb_est1 EST: * Database :

Maximum Match 100% Listing first 45 summaries

Post-processing: Minimum Match 0%

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution

ire distribucion.				Description	A1430337 mf68bl0.y	W88186 mf68b10.rl	BM540145 hb18f07.g	BG609875 324181 MA	BM124559 L0541G02-	BQ554452 H4028C03-	
and is derived by analysis of the total score distribution	SUMMARIES			ID	524 9 AI430337	W88186	BM540145	BG609875	BM124559	BQ554452	
STS				DB	6	14	13	12	13	14	
у апату				Match Length DB	524	420	553	344	480	549	
d is derived b		ф	Query	Match	46.0	38.8	35.6	22.6	15.0	15.0	
				Score	296.4	249.6	229	145.4	96.6	96.6	
an			Result	No.	1	7	e	4	S	9	

AL053013 Drosophil	5132		Droso	94 UI-H-E	_	34280	357122	1 GH1947	1121	98 id85h04	0143 PIC	682 DG1_88_	.96 Сно4	04064w 6	:05 zi38h02	ta64c02.	UI-H-BI4	K-ESTOO	. MEST5	4342 60	_	918	-	<u>ع</u>	<u>ი</u>	55 6	194	474	1419 MEST534-	W424676 707	3053 GH18791.	5064 T3 end	5114 949044	2130 MEST545	3243 uy83 ė	388823 949046B0	984 mb22a01	85 id66	
CNS0091P	CNS006DN	BG821981	CNS0091P	BQ574994	BQ779177	CNS004NB	BE357122	AI388531	BE357121	BM055698	BM330143	6268	AI064196	AI867949	AA680405	AI375735	9	BM826445	M38188	AI854942	75	AW927918	AW787571	BE129743	BQ280219	72	BQ279494	147	Н	W4246	AI388053	CNS07A2Y	BI396114	-	5024	BI388823	398	BM053185	
17	-	12	٦	Н	1	17	-	σ	М		٦	7	-				Н	14	-	σ	-	Н	10	10	14	6	14		-	1	σ	-	Н	Н	12	П	σ		
925	997	898	925	268	440	839	460	486	586	588	633	652	441	373	396	405	590	629	463	488	527	540	556	267	267	583	584	586	609	615	483	1063	425	441	468	497	553	602	
7.4	7.3	9.9	٠.												6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	٠.	6.3		٠.	6.3	•	6.3		
47.4	47	43.8	•	43	•	•	•	42.2		•	٠		•	41.4	41.4	41.4	41.4	41.4	41.2	41.2	41.2	41.2				41.2	•	•	•	•	41		ö.	0	٠	0	40.6		
7	- ∞	σ	10					15		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	
O	O			υ	บ			υ		υ			O	υ	υ	υ	υ		υ			υ		ပ	O	υ			O		O	O		Ö		O	υ	υ	

ALIGNMENTS

EST 15-MAR-2000 mf68b10.yl Soares mouse embryo NbME13.5 14.5 Mus musculus cDNA a1430337

AI430337.1 GI:4276173

DEFINITION

RESULT 3

ACCESSION

house mouse.

Mus musculus ORGANISM VERSION KEYWORDS SOURCE

REFERENCE

AUTHORS

1 (bases 1 to 524)
Marra,M., Hillier,L., Kucaba,T., Martin,J., Beck,C., Wylle,T.,
Underwood,K., Steptoe,M., Theising,B., Allen,M., Bowers,Y., Person,B., Swaller,T., Gibbons,M., Pape,D., Harvey,N., Schurk,R., Ritter,E., Kohn,S., Shin,T., Jackson,Y., Cardenas,M., McCann,R., Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Musinae; Mus

Contact: Marra M/WashU-NCI Mouse EST Project 1999 The WashU-NCI Mouse EST Project 1999 Waterston, R. and Wilson, R. Unpublished TITLE JOURNAL COMMENT

Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA

This clone is available royalty-free through LLNL; contact the IMACE Consortium (info@image.llnl.gov) for further information. This read is a RESEQUENCE of a previously sequenced mouse clone Email: mouseest@watson.wustl.edu

source

FEATURES

```
1 (bases 1 to 420)
Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,
Gelsel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,
Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,
Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        14.5dpc embryos [total RNA provided by Minoru Ko, Wayne State Univ., from 2 ]; double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library went through one round of normalization, and was constructed by Bento Soares and
                                                    Chordata; Craniata; Vertebrata; Euteleostomi;
Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                              This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     353 CCTCAACAGCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTGAACCGGCT 412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCTCAACAGCAGGGCCATCTCCTTGGAGCTATGAGTTGGACAGGACTTGAATCGGGT 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        293 CCTAGAGCCTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCAGTGAAGATGGACC 352
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                233 CAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCTGTGCCTCC 292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3 CGGCACAGGCGGCACAAAGCCCGGAGAGTGGCTGAAGTGGAGCTCTGTATCCCC
                                                                                                                                                                                                                                                         Unpublished (1996)
On Sep 12, 1996 this sequence version replaced gi:1402263
Contact: Marra M/Mouse EST Project
                                                                                                                                                                                                                                                                                                                            Washu-HHMI Mouse EST Project
Washington University School of MedicineP
444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    'clone_lib="Soares mouse embryo NbME13.5 14.5"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /tissue_rype="embryo"
/dev_stage="13.5-14.5dpc total fetus"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Seq primer: -28M13 rev2 from Amersham High quality sequence stop: 408. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     80
t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 'organism="Mus musculus"
                                                                                                                                                                                                                Waterston, R.
The WashU-HHMI Mouse EST Project
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="IMAGE:419419"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        M.Fatima Bonaldo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /sex="unknown"
                                                  Eukaryota; Metazoa;
Mammalla; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches 330; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MGI:253971
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              source
       SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BASE COUNT
                                                                                                                                                                                                                                    TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                413
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              182
                                                                                                REFERENCE
                                                                                                                     AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                 COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        QD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     δλ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                           EST 12-SEP-1996
This read has been verified (found to hit its original self in the correct orientation)
MGI:253971
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      T 3'], on equal amounts of mRNA from 2 13.5dpc and 2
14.5dpc embryos (total RNA provided by Minoru Ko, Wayne
State Univ., from 2 ]; double-stranded cDNA was ligated t
Eco RI adaptors (Pharmacia), digested with Not I and
cloned into the Not I and Eco RI sites of the modified
pT7T3 vector. Library went through one round of
normalization, and was constructed by Bento Soares and
M FA+*ima Roalide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  251 CTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCTGTGCCTCCCTAGAGCCTGCTAGGCC 310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               311 CAACCGCCACCAGAGTCCTGTAGGGCCAGTGAAGATGGACCCCTCAACAGAGGGCCAT 370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTCCCCCTGGAGATATGAGTTGGACAGAGACTTGAACCGGCTCCCCCAGGACCTGTACCA 430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GGGCAACTCGGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGGCCATGC 550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    151 GGGCAACTCCGTCCCACTTTACCACAACCAGACGGTCTTCTACCGGCGGCCATGCCATGC 310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CGAGAAGGGCACCCACAAGGGCTACTGCCTGGAGCGCAGGCTGTACCGTGTTTCCTTAGC 610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 420 bp mRNA linear EST 12-SEP-mouse embryo NbME13.5 14.5 Mus musculus cDNA 9 5', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11 CCCGGAGGAGTGGCTGAAGTGGAGCTCTGCATCTGTGTCCCCCCCAGAGCCTCTGAGCCA 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                       /clone="IMAGE:419419"
/clone_lib="Soares mouse embryo NbME13.5 14.5"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 524;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                        /tissue_type="embryo"
/dev_stage="13.5-14.5dpc total fetus"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 296.4; DB 9;
Pred. No. 6.2e-61;
0; Mismatches 61;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  371 TTGTGTGTGTGCGGCCCCGGGTCATGGCTTAG 404
                                                                                                                                                                                      /organism="Mus musculus"
                                                            Seq primer: -40RP from Gibco
High quality sequence stop: 476
POLYA-No.
                                                                                                                                                                                                         /strain="C57BL/6J"
/db_xref="taxon:10090"
                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            150 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       M.Fatima Bonaldo.
                                                                                                                                                                                                                                                                                                       /sex="unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 84.5%;
Matches 333; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      mf68b10.rl Soares mou
clone IMAGE:419419 5'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            177 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local (
```

BASE COUNT ORIGIN

371

ò

131

g

71

g

δ

ò g 431

ò

191 491

g

ö 셤 ò 엄 õ

551

611

W88186.1 GI:1542472 W88186 W88186 LOCUS ACCESSION VERSION KEYWORDS RESULT 2 W88186

121

62

Gaps

CICCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACTGTCTTCTA 532

473

ŏ

396. 341 456 401

281

m

g

a ò

```
Email: smith@email.marc.usda.gov
Single pass sequencing. Bases called and alt_trimmed with phred
v0.9809044.e. Vector identified by cross_match with the -minscore 18
and -minmatch 12 options.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              EST 17-APR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Fahrenkrug, S.C., Freking, B.A., Rohrer, G.A., Smith, T.P.L., Casas, E. Stone, R.T., Heaton, M.P., Grosse, W.M., Bennett, G.A., Laegreid, W. and Keele, J.W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Design and use of two pooled tissue normalized cDNA libraries for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /note="Vector: pCMV SPORT6; Site_1: Not1; Site_2: Sall; Library made from pooled tissue from day 11, 13, 15, 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  389 GIIGGACAGAGACIIGAACCGGCICCCCCAGGACCIGIACCACGCCCGIIGCCIGIGCCC 448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GAAGACGGACCGCTCAACAGCAGGTCTATCTCCCCCTGGAAATATGAGTTGGACAGGGAC 516
-CTACAGCCACTGGCCC 221
                                                                             AGCTGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTG
                                                                                                  282 CCTGTGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCAGT
                                                                                                                                                                                CTCAAGTTCCCCGGAGAGACACTAGCCTCACCACACACCAGAATCCTGCAAAGCCAGT
                                                                                                                                                                                                                                           342 GAAGATGGACCCCTCAACAGCAGGCCCATCTCCCCCTGGAGATATGAGTTGGACAGAGAC
                       ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 344;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae;
1 (bases 1 to 344)
                                                                                                                                                                                                                                                                                                                                                                                                                                         BG609875 344 bp mRNA linear
324181 MARC 1PIG Sus scrofa cDNA 5', mRNA sequence.
BG609875
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  22.6%; Score 145.4; DB 12;
larity 86.1%; Pred. No. 1.2e-24;
Conservative 0; Mismatches 26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  USDA, ARS, US Meat Animal Research Center
PO Box 166, Clay Center, NE 68933-0166, USA
                                                                                                                                                                                                                                                                                                                                        517 TTGAACGGGCTCCCCCAGGACCTGTACCACGCCGTT 553
                                                                                                                                                                                                                                                                                                                       402 TIGAACCGGCICCCCCAGGACCIGIACCACGCCCGIT 438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /organism="Sus scrofa"
/db_xref="taxon:9823"
/clone_lib="MARC lPIG"
/tissue_type="pooled"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Plate: 100 row: G column: 12
Seg primer: ATTTAGGTGACACTATAG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGGAAACAGCTATGACCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BACKWARD: GTTTTCCCAGTCACGACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        and 30 embryos.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BG609875.1 GI:13659854
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EST discovery in swine Unpublished (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Contact: Smith TPL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Tel: 402 762 4366
Fax: 402 762 4390
    ATGGTCATGGGAACCCACAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sus scrofa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FORWARD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Simmes 161;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                     457
                                                                                  222
                                                                                                                                                                                                         397
                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 4
BG609875
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                          ΩD
                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                             οy
                                                                                  δ
                                                                                                                                                               ö
                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                 ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /note-"Vector: Lambda Zap II; The library was produced by Greg Hannon and Raymond Preston (Cold Spring Harbor Laboratory). This library is oligo(dT) primed using stratagene zap cDNA synthesis kit. It was made from dog testes. Please contact Greg Hannon (hannon@cshl.org) with any library related inquiries."
                                                                                                                                                                                                                               hb18f07.g1 Canis cDNAs from testes cells Canis familiaris cDNA clone hb18f07 5', mRNA sequence.
BM540145
BM540145.1 GI:18822687
EST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       O'Shaughnessy, A.L., McCombio, W.R., Baker, J.P., Balija, V., Cunnius, D., Dedhia, N.N., de la Bastide, M., Katzenberger, F., King, L., Strichoff, K.A., Miller, B., Muller, S., Nascimento, L.U., Palmer, L., Santos, L., Shah, R.S., Spiegel, L.A., Zutavern, T., Preston, R. and Hannon, G.J.
                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
1 (bases 1 to 553)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           218 gragcac-ceregecreaccaccarcasecarcasecarcasercasercererrerrer 276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
      242 CTCCCACATGGACCCGCTGGGCAACTCCGTCCCACTTTACCACAACCAGACGGTCTTCTA 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCCCCACTTGTGACTGAGTGTGCAGTGCCCAGCATGTACCAGGTGGTTGCATTCTTGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GTCACTCCCTAAAAAGACAGTGGAAATAAATTTGAATAAACAAAACAGGCTTGCTGAAAA
                                                CCGGCGGCCATGCCATGGCGAAGGGCACCCACAAGGGCTACTGCCTGGAGCGCAGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Expressed sequence tags from Canis familiaris (dog) (2002) Unpublished (2002) Contact: W. Richard McCombie Lita Annenberg Hazen Genome Sequencing Center Cold Spring Harbor Laboratory Po Box 100, Cold Spring Harbor NY 11724, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 229; DB 13; Length 553;
Pred. No. 1e-44;
0; Mismatches 85; Indels 31;
                                                                                                                                                 'clone_lib="Canis cDNAs from testes cells"
                                                                                                           593 GIACCGIGITICCTIAGCITGIGIGIGIGGGCCCCGIGIGATGGGCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /organism="Canis familiaris"
/db_xref="taxon:9615"
/clone="hb18f07"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Plate: hb18 row: f column: 07
Seg primer: -21M13UnivRev
High quality sequence stop: 553.
Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /tissue_type="testes"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PO Box 100, Cold Spring Frel: 516 367 8884
Fax: 516 367 8874
Email: mccombie@cshl.org
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ouery Match 35.6%;
Best Local Similarity 74.6%;
Matches 341; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                               Canis familiaris
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ٥
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       126
                                                                                                                                                                                                                                                                                            DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE
JOURNAL
COMMENT
                                                                                                                                                                      360
                                                                                                                                                                                                                            RESULT 3
BM540145
LOCUS
                                                                                                                                                                                                                                                                                                                                 ACCESSION
                                                                                                                                                                                                                                                                                                                                                  VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURES
```

ö

Gaps

ð g ð g ò g 1;

Gaps

ä

259

59

379

AAA59158;

AAA5915 RESULT

g

õ

QQ

å

```
Human; interleukin 174; IL-174; cytokine; Th2 response; innate immune response; inflammation; gut cell growth; extramedullary hematopoises; antibody response; granuloma formation; autoimmune condition; multiple sclerosis; systemic lupus erythematosus; rheumatoid arthritis; diabetes; psoriasis; infectious agent: inflammatory condition, Crohn's disease; ulcerative colitis; pancreatitis; hepatitis; allorgy; Th2.mediated condition; systemic anaphylactic response; skin hypersensitivity response; skin hypersensitivity and expense; antimitic gastritis; immunomodulator; antimilammatory; antiarthritic; antidiabetic; antifungal; dermatological; neuroprotective; antiallergic; agonist; antagonist; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              160 GGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGGCCATGCCATGGCGAAGGG 419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TGAGTGTGCAGTGCCCAGCATGTACCAGGTGGTTGCATTCTTGGCAATGGTCATGGGAAC 199
                                                                                                                                                                                                                                    240 GAGATATGAGTTGGACAGAGACTTGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTG
                                                                             1 IGAGTGTGCAGTG-CCAGCATGTACCAGGTGGTTGCATTCTTGGCAATGGTCATGGAAC
                                                                                                                                    200 CCACACCTACAGCCACTGGCCCAGCTGCTGCCCAGCAAAGGGCAGGACACCTCTGAGGA
                                                                                                                                                        GGAGCTGCTCTACCACAACCAGACTGTCTTCTACCGGCGCCCATGCCATGGCGAGAAGGG
                                                                                                                                                                                                               260 GCTGCTGAGGTGGAGCACTGTGCCTGTGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCA
                                                                                                                                                                                                                                                                                           CCCAGAGTCCTGTAGGGCCAGTGAAGATGGACCCCTCAACAGCAGGGCCATCTCCCCCTG
                                                                                                                                                                                                                                                                                                                                                                      GAGATATGAGTTGGACAGAGACTTGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                   440 CCTGTGCCCGCACTGCGTCAGCCTACAGACAGGCTCCCACATGGACCCCCGGGGCAACTC
No. 1.4e-123;
smatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human interleukin 174 (IL-174)-encoding DNA.
Pred. No. 1.46
); Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "Human IL-174"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGTGCGCCCCGTGTGATGGGCTAG 644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABA02393 standard; DNA; 504 BP.
                  .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGTGCGGCCCCGTGTGATGGGCTAG
99.88;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         26-FEB-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ಡ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /product=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /*tag=
67..501
/*tag=
                  504; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                19..66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /*tag=
  Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 200
                    Matches
                                                           140
                                                                                                                                                                                                                                                                                             320
                                                                                                                                                                                                                                                                                                                                                                          380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABA02393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                             δ
                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          proliferation, e.g. cancerous conditions, or degenerative conditions. The IL-171 protein can be used in kits and assay methods for identifying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present sequence encodes an interleukin (IL)-174 polypeptide. It is a mammallan homologue of the cytokine designated CTLA-8 (also referred to as IL-17). The specification also describes homologues IL-171, IL-172, IL-173, IL-174, IL-176, and IL-177. The DNA sequence encoding IL-171 is useful for identifying genes, mRNA and cDNA molecules which code for related or homologues proteins. The IL-171 protein, antibodies against IL-171, and compounds which have binding affinity to IL-171 are useful in treatment of conditions associated with abnormal physiology or development, including abnormal
360 GGAGCTGCTCTACCACAACCAGACTGTCTACCGGCGGCCATGCCATGGCGAGAAGGG 419
                                                                                                                                                                                                                                                                                                                                                                                                             Interleukin; IL-171; cytokine; CTLA-8; IL-17; IL-175; IL-173; IL-174; IL-176; IL-177; cell proliferation; cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New DNA sequence encoding a mammalian homolog of CTLA-8, designated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           interleukin-171 (IL-171), useful for recombinant production of IL-
which can be used for treating conditions associated with abnormal
                                      DB 21; Length 504;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 98 A; 165 C; 148 G; 93 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                          cDNA encoding a human interleukin-174 polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "interleukin-174"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                compounds that selectively bind to IL-171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 493;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Kastelein RA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; Page 19; 111pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
19..504
/*tag= a
                                                                                                                                      644
                                                                                                                                                                                                                                                          BP,
                                                                                                                  620 rerececcccerereactae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              76.68;
                                                                                                                                                                                                                                                          **AAA59158 standard; cDNA; 504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10-JAN-2000; 2000WO-US00005.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           99US-0229402
                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       'product-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   development
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19..66
/*tag=
67..501
/*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bazan JF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (SCHE ) SCHERING CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2000-476060/41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    P-PSDB; AAB07692.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO200042187-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                   07-NOV-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-JUL-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  mat_peptide
```

Gorman DM,

physiology

/product= "Mature human IL-174"

Query Match

¥Oy

121 121

g δ

¥.

AMB07692 standard; Protein; 161

RESULT 2 AAB07692

IL-17; IL-175; IL-172; IL-173;

Interleukin; IL-171; cytokine; CTLA-8; IL-17; IL-17
IL-174; IL-176; IL-177; cell proliferation; cancer.

A human interleukin-174 polypeptide.

(first entry)

07-NOV-2000

AAB07692;

```
The polypeptide is an IL-17-like (CTLA-8 related) protein. It is a member of a new group of interleukins, IL-170, and IL-171. The members comprise IL-172, IL-173, IL-174, and IL-171. IL-170 protein can be used to treat abnormal proliferation e.g. cancer or degenerative conditions. Antibodies can be used in diagnostic methods to detect over production of II-170 protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          polynucleotide encoding a mammalian Interleukin-17 like to identify genes for homologous proteins -
                                                                                                                                                    "cAMP protein kinase phosphorylation site"
                                                                                                                                                                                                                                                                  note- "cAMP protein kinase phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     note- "protein kinase C phosphorylation site"
"protein kinase C phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 161;
                                                                            site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%; Score 910; DB 21;
100.0%; Pred. No. 4.1e-86;
ive 0; Mismatches 0;
                                                                          "calcium phosphorylation
                                                                                                                                                                                                                              note- "phosphorylation site"
                                      "phosphorylation site"
                                                                                                                                                                                          "phosphorylation site"
                                                                                                                                                                                                                                                                                                                                               note- "phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           'note= "phosphorylation site"
                                                                                                                "phosphorylation site"
                                                                                                                                                                                                                                                                                                        note= "tyrosine kinase site"
                                                                                                                                                                                                                                                                                                                                                                                                 119
Le "myristoylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                     18. 122
note= "myristoylation site"
                                                                                                                                                                                                                                                                                                                                                                                     "N-glycosylation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Kastelein RA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 11; Page 16; 111pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10-JAN-2000; 2000WO-US00006
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note= "π
119..121
                                                                                                                                                                                                                                                                                                                                                                   ..107
                                                                                                                                                                                                                                                                                        ..102
                                                                          note-
                                                                                                                                                        note-
                                                                                                                                                                                              note=
                                                                                                                                                                                                                                                                                                                                                                                         note-
                                        note-
                                                                                                                  note-
                                                                                                                                                                                                                                                                                                                                                                                                                           note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bazan JF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (SCHE ) SCHERING CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2000-466130/40.
N-PSDB; AAA58986.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   161 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200042188-A2
                  Modified-site
                                                      Modified-site
                                                                                                                                Modified-site
                                                                                                                                                                                                              Modified-site
                                                                                                                                                                                                                                                  Modified-site
                                                                                                                                                                                                                                                                                                                             Modified-site
                                                                                                                                                                                                                                                                                                                                                                 Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                             Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Modified-site
                                                                                            Modified-site
                                                                                                                                                                        Modified-site
                                                                                                                                                                                                                                                                                        Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                       Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New isolated
protein used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20-JUL-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gorman DM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
```

```
"cAMP protein kinase phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                    "cAMP protein kinase phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "cAMP protein kinase phosphorylation site"
                                                                                                                                                                                                                                                                                                note- "protein kinase C phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              note= "protein kinase C phosphorylation site"
                                                                                                                   site"
                                                                                     "calcium phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                             site"
                                                                                                                  "calcium phosphorylation
                                                                                                                                                                                                                                                                                                                                                            "calcium phosphorylation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "N-glycosylation site"
                                                                                                                                                                                                           "phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                  note= "phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         note= "tyrosine kinase site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "phosphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             'note= "phosphorylation site"
                                                                                                                                                                                                                                                                                                                              "phosphorylation site'
                                                                                                                                                                                                                                                                                                                                                                                        "phosphorylation site'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "myristoylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               122
:e= "myristoylation site"
                                                                                                                                               "myristoylation site"
                                                                                                                                                                                                                                                                   "phosphorylation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               note= "phosphorylation
                                                                                                                                                                              "mature protein"
                                                        "signal peptide"
                            Socation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10-JAN-2000; 2000WO-US00005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .102
                                                                                                                                                                                                       note-
                                                                                                                                                                                                                                        note=
                                                                                                                                                                                                                                                                                                                                                            note-
                                                                                                                                                                              note-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   note=
                                                                                         note-
                                                                                                                   note-
                                                                                                                                                                                                                                                                      ote-
                                                                                                                                                                                                                                                                                                                                note=
                                                                                                                                                                                                                                                                                                                                                                                         note-
                                                                                                                                                                                                                                                                                                                                                                                                                       note-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO200042187-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Modified-site
                                                                      Modified-site
                                                                                                  Modified-site
                                                                                                                                 Modified-site
                                                                                                                                                                                           Modified-site
                                                                                                                                                                                                                         Modified-site
                                                                                                                                                                                                                                                     Modified-site
                                                                                                                                                                                                                                                                                  Modified-site
                                                                                                                                                                                                                                                                                                                Modified-site
                                                                                                                                                                                                                                                                                                                                           Modified-site
                                                                                                                                                                                                                                                                                                                                                                          Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                      Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                    Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Modified-site
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20-JUL-2000
                                       Peptide
                                                                                                                                                               Protein
```

; 0

Gaps

; 0

Indels

61 SEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHN 120

Mon Ms

61

셤

ó

1 MYQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRA 60

Conservative

Similarity

Best Local Sim Matches 161;

ŏ g

```
It is a mammalian homologue of the cytokine designated CTLA-8 (also referred to as IL-17). The specification also describes homologues IL-171, IL-175, IL-172, IL-173, IL-174, IL-170, and IL-177. The DNA sequence encoding IL-171 is useful for identifying genes, makA and CDNA molecules which code for related or homologous proteins. The binding affinity to IL-171 are useful in treatment of compounds which have binding affinity to IL-171 are useful in treatment of conditions associated with abnormal physiology or development, including abnormal proliferation, e.g. cancerous conditions, or degenerative conditions. The IL-171 protein can be used in kits and assay methods for identifying compounds that selectively bind to IL-171.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cytostatic; multiple sclerosis; rheumatoid arthritis; therapy; lupus; inflammatory bowel disease; neuronal dysfunction; transplant rejection; autoimmune disorder; lung; skin; kidney; bone; eye; vascular system; infection, hepatitis; obesity; anorexia; cachexia; glomerulonephritis; cystic fibrosis; Alzhehmer's disease; Parkinson's disease; emplysema; eczema; sepsis; psoriasis; wound healing; osteoporosis; paget's disease; epilepsy; atherosclerosis; heart failure; angiogenesis; endometriosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; interleukin-17 like; IL-17L; immune system dysfunction; diabetes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 SEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHN 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61 SEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHN 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                inflammation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 MYQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRA 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MYQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRA 60
                                                                                                                                                                                                                    leukin-171 (IL-171), useful for recombinant production of IL-can be used for treating conditions associated with abnormal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 161;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           epilepsy; atherosclerosis; heart failure; angiogenesis; e
leukaemia; retinal neuropathy; infertility; miscarriage;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                    of CTLA-8,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121 QIVEYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121 QTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%; Score 910; DB 21;
100.0%; Pred. No. 4.1e-86;
iive 0; Mismatches 0;
                                                                                                                                                                                                    DNA sequence encoding a mammalian homolog
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human Interleukin-17 like (IL-17L) protein.
                                                                                               Kastelein RA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                                                                                                    Disclosure; Page 19; 111pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ¥.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAE18120 standard; Protein; 161
                99US-0229402
                                                                                                                                                                                                                                                              physiology or development -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches 161; Conservative
                                                                                               Bazan JF,
                                                        (SCHE ) SCHERING CORP
                                                                                                                                     WPI; 2000-476060/41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        161 AA;
                                                                                                                                                          N-PSDB; AAA59158
                                                                                                                                                                                                                        interleukin-171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              07-MAY-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                  11-JAN-1999;
                                                                                                  Gorman DM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAE1.8120;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAE18120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT
q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           õ
```

Gaps

.; 0

```
acute respiratory distress syndrome, cystic fibrosis, emphysema); skin (psoriasis, eczema, wound healing); kidney (glomerulonephritis); bone (osteoporosis, Paget's disease, hypercalcaemia) vascular system (epilepsy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (1утрћоша
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to nucleic acid molecules encoding Interleukin 17 (IL-17)-like polypeptides. IL-17 DNA can be used to modulate the levels of IL-17 protein is useful for treating, preventing or ameliorating a disease, such as immune system dysfunction (rheumatoid arthritis, osteoarthritis, inflammatory joint disease); autoimmune (multiple sclerosis, lupus, diabetes, inflammatory bowel disease, transplant rejection, graft vs. host disease); Infections (HIV, hepatitis, bacterial); weight disorders (obesity, anorexia, cachexia, sepsis); neuronal dysfunction (Alzheimer's, Parkinson's disease); lung
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    nflammation. The present sequence is human Interleukin-17 like (IL-17L)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61 SEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHN 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 MYQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRA 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       eukaemia); reproductive (infertility, miscarriage, endometriosis),
blindness, retinal neuropathy) and treatment of diseases involving
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       of
                                                                                                                                                                                                                                                                                                                                                                                                                        Jing S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               atherosclerosis, heart failure, angiogenesis); tumours, cancers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nucleic acid molecules encoding Interleukin 17 (IL-17) - like polypeptides useful in the treatment, prevention and diagnosis diseases e.g. cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 161;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                        Silbiger SM, Elliot GS, Nguyen HO,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121 QTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 910; DB 23;
Pred. No. 4.1e-86;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121 QIVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG
1..16
/label= Signal_peptide
17..161
/label= Mature_IL_17L_protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAM52691 standard; Protein; 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 13; Fig 1; 242pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%;
                                                                                                                                                                                                                                                                                                   02-FEB-2001; 2001US-266159P
16-MAR-2001; 2001US-0810384
                                                                                                                                                                                                                           21-JUN-2001; 2001WO-US19861
                                                                                                                                                                                                                                                                            2000US-213125P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2002-155217/20
                                                                                                                                                                                                                                                                                                                                                                                                                        Medlock E, Yeh R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity
Matches 161; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 161 AA;
                                                                                                                                                                                                                                                                                                                                                                             (AMGE-) AMGEN INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               N-PSDB; AAD28771
                                                                                                                             WO200208285-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           26-FEB-2002
                                                                                                                                                                                                                                                                            22-JUN-2000;
                                                                                                                                                                        31-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (blindness,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAM52691;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                     Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAM52691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C Dp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A X X X E X
```

ö

N

```
IL-171 protein, antibodies against IL-171, and compounds which have binding affinity to IL-171 are useful in treatment of conditions associated with abnormal physiology or development, including abnormal proliferation, e.g. cancerous conditions, or degenerative conditions. The IL-171 protein can be used in kits and assay methods for identifying
                                                                                                                                                                                                                                                                                                                                                                                                                      Interleukin; IL-171; cytokine; CTLA-8; IL-17; IL-175; IL-172; IL-173; IL-174; IL-176; IL-177; cell proliferation; cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present sequence encodes an interleukin (IL)-174 polypeptide. It is a mammalian homologue of the cytokine designated CTLA-8 (also referred to as IL-17). The specification also describes homologues IL-171, IL-175, IL-173, IL-174, IL-176, and IL-177. The DNA sequence encoding IL-171 is useful for identifying genes, mRNA and CDNA molecules which code for related or homologous proteins. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNA sequence encoding a mammalian homolog of CTLA-8, designated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     interleukin-171 (IL-171), useful for recombinant production of IL-which can be used for treating conditions associated with abnormal
                                           379 CAGACTGTCTTCTACCGGCGGCCATGCCATGGCGAGAGAGGGCACCCACAAGGGCTACTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0 other;
                                                                                                                                                                                                                                                                                                                                                                               cDNA encoding a human interleukin-174 polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 98 A; 165 C; 148 G; 93 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "interleukin-174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              that selectively bind to IL-171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Page 19; 111pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cocation/Qualifiers
19..504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Kastelein
                                                                                                                                                                                                                                                      AMS 9158 standard; cDNA; 504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10-JAN-2000; 2000WO-US00005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3.01e-74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99US-0229402
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /*tag= a
/product=
                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              or development
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /*tag=
67..501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             . 99.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (SCHE ) SCHERING CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bazan JF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2000-476060/41.
P-PSDB; AAB07692.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200042187-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Alignment Scores:
Pred. No.:
                                                                                                                               161 Gly 161
                                                                                                                                                                        GGC 501
                                                                                                                                                                                                                                                                                                                                        07 - NOV - 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20-JUL-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gorman DM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              physiology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 compounds
                                                                                                                                                                                                                                                                                               AAA59158;
                                                                                      439
                                                                                                                                                                        664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New
                                                                                                                                                                                                                 RESULT
                                                                                      g
                                                                                                                                                                      g
                                               ò
                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The polypeptide is an IL-17-like (CTLA-8 related) protein. It is a member of a new group of interleukins, IL-170 polypeptides. The members comprise IL-172, IL-173, IL-174, IL-176, IL-177, and IL-171. IL-170 protein can be used to treat abnormal proliferation e.g. cancer or degenerative conditions. Antibodies can be used in diagnostic methods to detect over production of IL-170 protein in cells or body
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GlnThrValPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCys 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AspLeuAsnArgLeuProGlnAspLeuTyrHisAlaArgCysLeuCysProHisCysVal 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          80
                                                                                                                                                                                                                                                                                                                                                                                                                                       New isolated polynucleotide encoding a manmalian Interleukin-17 like protein used to identify genes for homologous proteins -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            present sequence encodes an interleukin-174 (IL-174) polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ProSerCysCysProSerLysGlyGlnAspThrSerGluGluLeuLeuArgTrpSerThr 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ValProValProProLeuGluProAlaArgProAsnArgHisProGluSerCysArgAla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SerLeuGlnThrGlySerHisMetAspProArgGlyAsnSerGluLeuLeuTyrHisAsn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MetTyrGlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SerGluAspGlyProLeuAsnSerArgAlaIleSerProTrpArgTyrGluLeuAspArg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GACTTGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCCGCACTGCGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 504
161
0
0
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    G; 93 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length:
Matches:
Conservative:
Mismatches:
  "interleukin-174"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels:
Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-037-591A-2 (1-161) x AAA58986 (1-504)
                                                                                                                                                                                                                                                                                                                                      Kastelein RA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 16; 111pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98 A; 165 C; 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3.01e-74
910.00
100.00%
100.00%
                                                                                                                                                                                                           10-JAN-2000; 2000WO-US00006
                                                                                                                                                                                                                                                    99US-0228822
/product= '
19..66
/*tag= b
67..501
/*tag= c
                                                                                                                                                                                                                                                                                                                                 Bazan JF,
                                                                                                                                                                                                                                                                                           (SCHE ) SCHERING CORP
                                                                                                                                                                                                                                                                                                                                                                        WPI; 2000~466130/40.
P-PSDB; AAB07598.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    504 BP;
                                                                                                                           WO200042188-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Percent Similarity:
                                                                                                                                                                                                                                                    11-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Alignment Scores:
                                                                                                                                                                    20-JUL-2000
                     sig_peptide
                                                              mat_peptide
                                                                                                                                                                                                                                                                                                                                    Gorman DM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           fluids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          101
```

MOD MA.

ద

엄

ò 셤

ð

ö 셤 ò ద ò 셤 ö

ð

る Þ

```
139 GIGCCIGIGCCICCCCIAGAGCCIGCIAGGCCCAACCGCCACCCAGAGICCIGIAGGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SerGluAspGlyProLeuAsnSerArgAlalleSerProTrpArgTyrGluLeuAspArg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61
  q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a
a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        innate immune response; inflammation; gut cell growth; extramedullary haematopoiesis; antibody response; granuloma formation; autoimmune condition; multiple sclerosis; systemic lupus erythematosus; rheumatoid arthritis; diabetes; psorlasis; infectious agent; inflammatory condition; Crohn's disease; ulcerative colitis; pancreatitis; hepatitis; allergy; Th2-mediated condition; systemic anaphylactic response; Skin hypersensitivity response; dermatitis; asthma; fibrosis; skin hypersensitivity response; antiinflammatory; antiarthritic; antidiabetic; antifungal; dermatological; neuroprotective; antiallergic; agonist; antagonist; ds.
                                                                                                                         138
                                                                                                                                                           198
                                                                                                                                                                                              258
                                                                                                                                                                                                                 100
                                                                                                                                                                                                                                                    120
                                                                                                                                                                                                                                                                                                                        160
                                                                                                                                                                                                                                                                                                                                          498
                                                                                                        40
                                                                                                                                                                             80
                                                                                     78
                                                                                                                                          9
                                                                                                                                                                                                                                                 MetTyrGlnValValAlaPheLeuAlaMetValMetGlyThrHisThrTyrSerHisTrp
                                                                              ProSerCysCysProSerLysGlyGlnAspThrSerGluGluLeuLeuArgTrpSerThr
                                                                                                                ValProValProProLeuGluProAlaArgProAsnArgHisProGluSerCysArgAla
                                                                                                                                                                           SerGluAspGlyProLeuAsnSerArgAlaIleSerProTrpArgTyrGluLeuAspArg
                                                                                                                                                                                            AGTGAAGATGGACCCCTCAACAGCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGA
                                                                                                                                                                                                                       LeuGluArgArgLeuTyrArgValSerLeuAlaCysValCysValArgProArgValMet
                                                                                                                                                                                                               AspLeuAsnArgLeuProGlnAspLeuTyrHisAlaArgCysLeuCysProHisCysVal
                                                                                                                                                                                                                                                                                    GlnThrValPheTyrArgArgProCysHisGlyGluLysGlyThrHisLysGlyTyrCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; interleukin 174; IL-174; cytokine; Th2_response;
 161
0
0
         Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human interleukin 174 (IL-174) - encoding DNA.
 Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Human IL-174"
                                   Gaps:
                                                  (1-504)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                  US-10-037-591A-2 (1-161) x AAA59158
                                                                                                                                                                                                                                                                                                                                                                                                            ABA02393 standard; DNA; 504 BP
910.00
100.00%
100.00%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19..504
/*tag= a
/product= 19..66
                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
       Percent Similarity:
Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                         Gly 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                26-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sapiens
                                                                                                                                                                                                                                                                                                                                                                          499 GGC 501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                              ABA02393;
                                                                                     19
                                                                                                                                                                                            199
                                                                                                                                                                                                                                                                   319
                                                                                                                                                                                                                                                                                                     379
                                                                                                                                                                                                                                                                                                                       141
                                                                                                                                                                                                                                                                                                                                       439
                                                                                                                                                                                                                                                                                                                                                         161
                                                                     Н
                                                                                                       21
                                                                                                                                         41
                                                                                                                                                                                                               81
                                                                                                                                                                                                                                                  101
                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo
                                                                                                                                                                            61
                                                                                                                                                                                                                                                                                                                                                                                            RESULT 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Key
                                                                                                                                                                                                                                                                                                                                                                                                     ABA02393
 Score:
                                                                                    g
                                                                                                       ολ
                                                                                                                     .
O
                                                                                                                                                         g
                                                                                                                                                                                            a
                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                    <u>a</u>
                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                          සු
                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                          ŏ
                                                                                                                                                                            δ
                                                                                                                                                                                                               ŏ
                                                                                                                                                                                                                                                  ŏ
                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                    ò
```

```
mammal by the administration of an agonist or antagonist of the cytokine interleukin 174 (IL-174). Administration of an IL-174 agonist directs the immune response towards a Th2 response, stimulates an innate immune response, augments the inflammatory response from epithelial or fibroblast cells, induces gut cell growth, promotes extramedullary haematopoiesis, or augments an antibody response in serum and faecal material, while administration of an IL-174 antagonist directs the immune response away from a Th2 type response, and prevents inflammation or granuloma formation. IL-174 agonists may be used to treat autoimmune conditions (particularly multiple sclerosis, systemic lupus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         to an infectious agent, or inflammatory conditions such as Crohn's disease, ulcerative colitis, pancreatitis, or hepatitis. IL-174 antagonists may be used to treat inflammatory, allergic or Th2-mediated conditions (e.g., systemic anaphylactic response, skin hypersensitivity response, dermatitis, asthma, fibrosis, or eosinophilic gastritis). The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      response
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to methods of directing an immune response in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Administering an interleukin 174 agonist or antagonist to a mammal regulates various immune and inflammatory responses and is useful ttreat for example autoimmune diseases, allergies or response to an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ProSerCysCysProSerLysGlyGlnAspThrSerGluGluLeuLeuArgTrpSerThr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ValProValProProLeuGluProAlaArgProAsnArgHisProGluSerCysArgAla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              erythematosus, rheumatoid arthritis, diabetes or psoriasis),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               504
161
0
0
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        98 A; 165 C; 148 G; 93 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative:
Mismatches:
Indels:
                                                                         human IL-174"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Page 26-27; 29pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-037-591A-2 (1-161) x ABA02393 (1-504)
                                                                                                                                                                                                                                                                                                                                                                              Ä
                                                                         "Mature
                                                                                                                                                                                                                                                                                                                                                                              Rennick
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3.01e-74
910.00
100.00%
100.00%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            represents
                                                                                                                                                                                                                         17-APR-2001; 2001WO-US12493
                                                                                                                                                                                                                                                                           18-APR-2000; 2000US-198488P
                                                                         /product=
/*tag= 1
67..501
/*tag= 0
                                                                                                                                                                                                                                                                                                                                                                           Zurawski SM,
                                                                                                                                                                                                                                                                                                                            CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2002-034343/04.
P-PSDB; AAM52691.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                            (SCHE ) SCHERING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            present sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 504 BP;
                                                                                                                        WO200179288-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure;
                                                                                                                                                                       25-OCT-2001.
                       mat_peptide
                                                                                                                                                                                                                                                                                                                                                                           Hurst SD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match:
```

198

80

```
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                     source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DEFINITION
                                                                                                          BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE
PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 JOURNAL
                           JOURNAL
                                                      FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE
  TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT
                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PAT 06-AUG-2001
                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 1320)
Chen,J., Filvaroff,E., Fong,S., Goddard,A., Godowski,P.J.,
Erimaldi,C.J., Gurney,A.L., Li,H., Hillan,K.J., Tumas,D., van
Lookeren,M., Vandlen,R.L., Watanabe,C.K., Williams,P.M., Wood,W.I.
and Yansura,D.G.
                                                      Craniata; Vertebrata; Euteleostomi;
Catarrhini; Hominidae; Homo.
                                                                                        Fong, S., Goddard, A., Godowski, P.J., Grimaldi, C.J., Gurney, A.L., Hillan, K.J., Tumas, D., Watanabe, C.K., Wood, W.I. and Zhang, Z. Compositions and methods for the treatment of immune related
                                                                                                                                                                                                                                                                                                                                                                                                                                GTGCCTCCCTAGAGCCTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCAGTGA 344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      372
                                                                                                                                                                                                                                                                                                                                                                               284
                                                                                                                                                                                                                                                                                                                                                                                                        432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      404
                                                                                                                                                                                                                                                                                                                                         113 CAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACCTACACCACTGGCCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGGTGGAGCACTGTGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               493 GATGGACCCCTCAACAGCAGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCÀCAACCAGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTCTTCTACCGGCGGCCATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAG
                                                                                                                                                                                                                                                                                                                           165 CAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACACTACAGCCACTGGCCCAGC
                                                                                                                                                                                                                                                                                                                                                                                           GATGGACCCCTCAACAGCAGGCCCATCTCCCCCTGGAGATATGAGTTGGACAGACTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCCAGGCTGTACCGTGTTTCCTTAGCTTGTGTGTGTGTGCGGCCCCGTGTGATGGGCCTAG
                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                        Length 1320;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                        ;
9
                                                                                                                                                                                                                                                                      Score 478.4; DB 6;
Pred. No. 6.6e-108;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA
                                                                                                                                                                                                                                303 t
                                                                                                                                                                                                                                                                                                 0; Mismatches
                                                                                                                                               Patent: WO 0140465-A 17 07-JUN-2001;
                                                                                                                                                                                                   /organism="Homo sapiens"
/db_xref="taxon:9606"
353 c 384 g 303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AX180768 1320 bp
Sequence 5 from Patent W00146420.
AX180768 GI:15132618
                                        Homo sapiens
Bukaryota, Metazoa; Chordata;
Mammaila; Eutheria; Primates;
1 (bases 1 to 1320)
                                                                                                                                                               , Inc. (US)
Location/Qualifiers
                                                                                                                                                                                                                              384 g
 GI:14545087
                                                                                                                                                                                                                                                                      74.3%;
99.8%;
                                                                                                                                                                                                                                                                                    Best Local Similarity 99.8
Matches 479; Conservative
 AX164145.1
                                                                                                                                                                Genentech
                                                                                                                                      diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      human.
                           human
                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                           sonrce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
AUTHORS
                                                                                                                                                                                                                                BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                             225
                                                                                                                                                                                                                                                                                                                                                                                                        373
                                                                                                                                                                                                                                                                                                                                                                                                                                                          433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        585
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 733
                                                                                                                                                                                                                                                                                                                                                                                                                                   285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 6
AX180768
                                                                                 REFERENCE
                                                                                             AUTHORS
                                                                                                                                                 JOURNAL
                                                                                                                                                                           FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VERSION
                                                                                                                      TITLE
                                                                                                                                                                                                                                            ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
```

*oc

```
PRI 09-JAN-2001 cds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (bases 1 to 1335)
Lee,J., Ho,W.-H., Maruoka,M., Corpuz,R.T., Baldwin,D., Foster,J.S.,
Goddard,A.D., Yansura,D.G., Vandlen,R.L., Wood,W.I. and Gurney,A.L.
Direct Submission
Submitted (12-SEP-2000) Molecular Biology, Genentech, 1 DNA Way,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota: Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 1335)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Lee,J., Ho,W.-H., Maruoka,M., Corpuz,R.T., Baldwin,D.T., Foster,J.S., Goddard,A.D., Yansura,D.G., Vandlen,R.L., Wood,W.I. and Gurney,A.L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        313 CAGGTGGTTGCTTTGGCAATGGTCATGGGAACCCACACCTACAGCCACTGGCCCAGC 372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    285 GIGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCACAGAGTCCTGTAGGGCCAGTGAA 344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               524
                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  the IL-17 receptor
         nses
                                                                                                                                                                                                                                                                                                                                                165 CAGGTGGTTGCATTGTTGGTCATGGTAACCCACACCTACAGCCACTGGCCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                           25 TGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 345 GATGGACCCCTCAACAGCAGGCCATCTCCCCCTGGAGATATGAGTTGGACAGACTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         493 GATGGACCCTCAACAGCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       405 AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            465 CAGACAGGCTCCCACATGGACCCCGGGGCAACTCGGAGCTGCTCTACCACAACAGAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             613 CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACACCAGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        525 GTCTTCTACCGGCGGCCATGCCATGGCGAGAAGGGCACCCACAAGGGCTACTGCCTGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                585 CGCAGGCTGTACCGTGTTCCTTAGCTTGTGTGTGTGCGGCCCCGTGTGATGGGCTAG
11-17 and il-17r homologous polypeptides and therapeutic
thereof
Patent: WO 0146420-A 5 28-JUN-2001;
Genentech, Inc. (US)
Location/Qualifiers
1. 1320
                                                                                                                                                                                                                                                                                                     ;
0
                                                                                                                                                                                                                                                             Length 1320;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AF305200 .1335 bp mRNA linear
Homo sapiens interleukin 17E (IL17E) mRNA, complete
AF305200
                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IL-17E, a novel proinflammatory ligand for
homolog IL-17Rh1
                                                                                                                                                                                                                                                        Score 478.4; DB 6;
Pred. No. 6.6e-108;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   . Biol. Chem. 276 (2), 1660-1664 (2001)
1125711
                                                                                                                                                                                          303
                                                                                                                                        /organism="Homo sapiens"
/db_xref="taxon:9606"
353 c 384 g 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AF305200.1 GI:11878209
                                                                                                                                                                                                                                                        Query Match 74.3%;
Best Local Similarity 99.8%;
Matches 479; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                          ū
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1058597
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE
JOURNAL
```

```
/product="1L25"
/protein_id="AAL57622.1"
/db_xref="61:18034676"
/db_xref="101:18034676"
/translation="MYQVVAFLAMVMGTHTYSHWPSCCPSKGODTSEELLRWSTVPVP-PLEPARPRNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLRQDLYHARCLCPHCVSLOTGSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVM
S.D., Zurawski,G., Leach,M.W., Gorman,D.M. and Rennick,D.M. induces IL-4, IL-5, and IL-13 and Th2-associated pathologies
                                                                             Lurst, S.D., Muchamuel, T., Gorman, D.M., Gilbert, J.M., Cllfford, T., Kwan, S., Menon, S., Seymour, B., Jackson, C., Kung, T., Brieland, J., Zurawski, S.M., Chapman, R., Zurawski, G. and Coffman, R.L. New IL-17 family members promote Thl or Th2 responses in the lung: In vivo function of the novel cytokine IL-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121 GIGCCIGIGCCICCCCIAGAGCCIGCIAGGCCCAACCGCCACCCAGGICCIGIAGGGCC 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGTGAAGATGGACCCCTCAACAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGA 398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241 GACTTGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTC 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AGCCTACAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAAC 518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            519 CAGACTGTCTTCTACCGGCGGCCATGCCATGGGGAGAAGGGCACCCACAAGGGCTACTGC 578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61 CCCAGCTGCTGCCCCAGCAAAGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAGACTGTCTTCTACCGGCGGCCATGCCATGGCGAGAAGGCCACCACAAGGGCTACTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              159 AIGTACCAGGIGGIIGCATICITGGCAAIGGICAIGGGAACCCACACACAGGCACIGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 ATGTACCAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACCTACAGCCACACTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCCAGCTGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       279 GIGCCIGIGCCICCCCIAGAGCCIGCIAGGCCCAACCGCCACCCAGAGICCIGIAGGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GACTTGAACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ;
0
                                                                                                                                                                                                               These is to 486)
Gilbert, J.M. and Gorman, D.M.
Direct Submission
Submitted (12-bBc-2001) Genomics, DNAX Research Inc.,
California Ave., Palo Alto, CA 94304, USA
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 478; DB 9; I
Pred. No. 8.1e-108;
0; Mismatches 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ىد
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      83
                                                                                                                                                                                                                                                                                                                            /organism="Homo sapiens"
/db_xref="taxon:9606"
1. .486
                                         Immunity 15 (6), 985-995 (2001) 21629216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          141
                                                                                                                                                                                                                                                                                                                                                                                    /note="cytokine"
                                                                                                                                                                                                                                                                                                                                                                                                     /codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      74.2%;
ilarity 99.0%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        162 c
                                                                                                                                                                                                                                                                                                                   1. .486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
Les 481; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          94
                                     in vivo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                          source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           399 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              639
                                                                                                                                                                                                                                                   TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         219
                                                                                                                                                                                                                      REFERENCE
AUTHORS
                                                                    MEDLINE
PUBMED
                                                                                                                                                                                                   JOURNAL
                                                                                                     REFERENCE
                                                                                                                    AUTHORS
                                                      JOURNAL
                                                                                                                                                                                                                                                                                                                                                                      CDS
                                                                                                                                                                                                                                                                                                     FEATURES
                      TITLE
                                                                                                                                                                    TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Db
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ğ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRI 15-JAN-2002
                                                                                                                                                                                                                                                   /translation="MRERPRIGEDSSLISLFLQVVAPLAMVMGTHTYSHWPSCCPSKG
QDTSEELLRWGTVPVPPLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLP
QDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERR
LTRYSLACVCVPRNWG" 303 t
                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 486)
Fort, M. M. Cheung, J., Yen, D., Li, J., Zurawski, S. M., Lo, S.,
Menon, S., Clifford, T., Hunte, B., Lesley, R., Muchamuel, T.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTCTTCTACCGGCGCCATGCCATGGCGAGAGGGCACCCACAAGGGCTACTGCCTGGAG 584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           732
                                                                                                                                                                                                                                                                                                                                                                                                                                         224
                                                                                                                                                                                                                                                                                                                                                                                                                                                         432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           433 GTGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCAGTGAA 492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         405 AACCGGCTCCCCCAGGACCTGTACCACGCCCGTTGCCTGTGCCCGCACTGCGTCAGCCTA 464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         465 CAGACAGGCTCCCACATGGACCCCCGGGGCAACTCGGAGCTGCTCTACCACAACCAGACT 524
                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             585 CGCAGGCTGTACCGTGTTTCCTTAGCTTGTGTGTGTGTGCGCCCCGTGTGATGGGCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACCTACAGCCACTGGCCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCAGTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GATGGACCCCTCAACAGCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACTGTGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                         ;
0
                                                                                                                                                                                                                                                                                                                                                                        Length 1335;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                linear
                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                      Score 478.4; DB 9;
Pred. No. 6.6e-108;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               486 bp mRNA complete cds.
                                                                                                                                                                                                                                                                                                                                                                                        Pred. No. 6.6e
0; Mismatches
                                                                                                                                                                                                   /product="interleukin 17E"
/protein_id="AAG40848.1"
/db_xref="GI:11878210"
     Francisco, CA 94080, USA
Location/Qualifiers
1. .1335
                                                                                                                                    259. :792
/gene="IL17E"
/note="IL-17E; cytokine"
                                                     /organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="14"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens IL25 mRNA, AF458059
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AF458059.1 GI:18034675
                                                                                                                                                                                       /codon_start=1
                                                                                                                      /gene="IL17E"
                                                                                                                                                                                                                                                                                                                                                                      Match 74.3%;
Local Similarity 99.8%;
es 479; Conservative (
                                                                                                   .. .1335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                                                                                          ಡ
          San
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AF458059
                                                                                                                                                                                                                                                                                                                        295
          South
                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                         Best Loca
Matches
                                                                                                                                                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                           165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            345
                                                                                                          gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 8.
AF458059
                                                                                                                                         CDS
                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      įΩ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
```

ŏ g οχ δy a d ò

ö

218

120